13-1

Name _____ Date _____

Homework Practice

Geometry Vocabulary

Use the figure to determine if each pair of lines is *parallel, intersecting,* or *perpendicular.* Choose the most specific term.

1. $\overline{AB}$ and $\overline{CD}$

_____

2. $\overline{BD}$ and $\overline{CD}$

_____

3. $\overline{AD}$ and $\overline{CD}$

_____

Describe each figure below as a *point, line, ray* or *line segment.*

4. 

_____

5. 

_____

6. 

_____

7. 

_____

Spiral Review

Use any strategy to solve each problem.

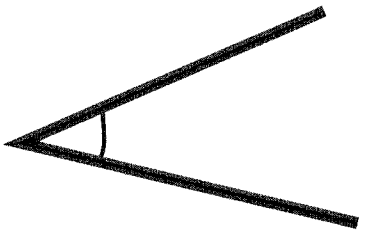
8. Judy ran a 3-kilometer race. When she was halfway to the finish line, how far had she run?

_____

9. A museum charges $3 admission. If the museum collected $1,176, how many people came to the museum?

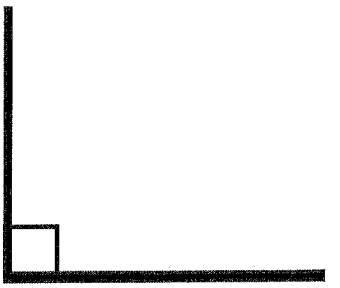
_____

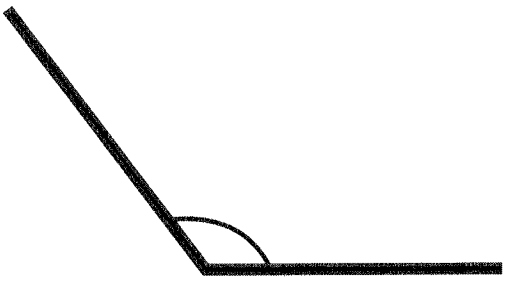
Angles



Angles less than 90
are ACUTE angles

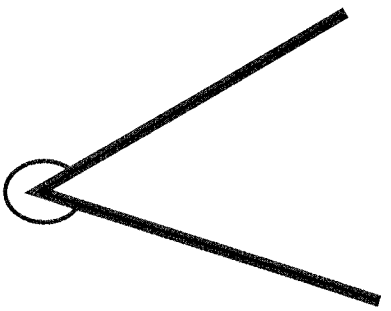
Angles equal to 90
are RIGHT angles





Angles more than 90
are OBTUSE angles

Angles equal to 180
are STRAIGHT LINES



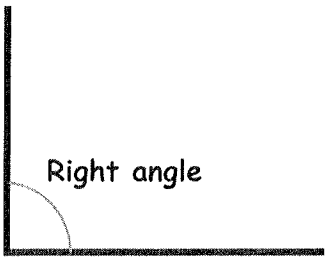
Angles more than 180
are REFLEX angles

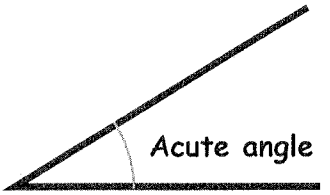
Geometry

Name : ..... Class : .....

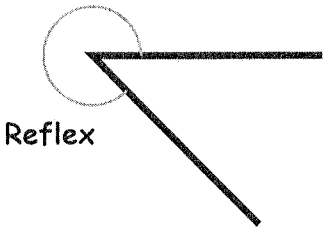
Score : .....

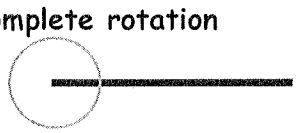
Which characteristics match there angles ?

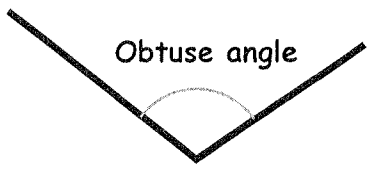
1) 

2) 

3) 

4) 

5) 

6) 

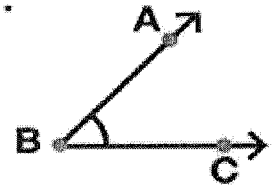
Characteristics
360^{0}
90^{0}
$>180^{0}$
$>90^{0}$ $<180^{0}$
180^{0}
$<90^{0}$

Name: _____

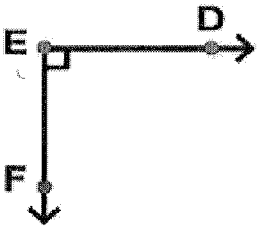
Three Types of Angles

Acute, Obtuse, and Right Angles

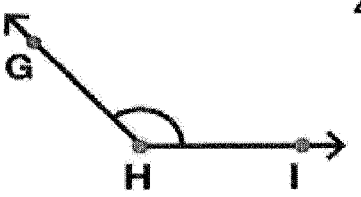
Label each angle as acute, obtuse, or right.

1. 

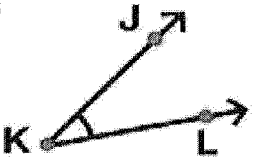
_____

2. 

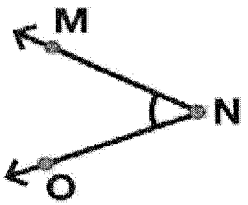
_____

3. 

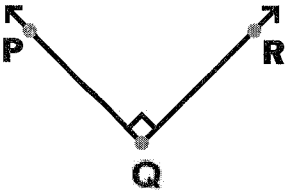
_____

4. 

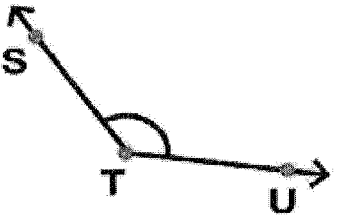
_____

5. 

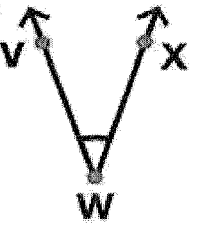
_____

6. 

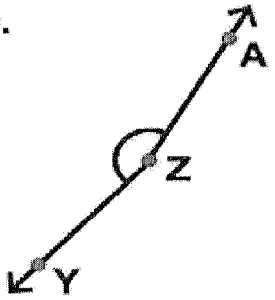
_____

7. 

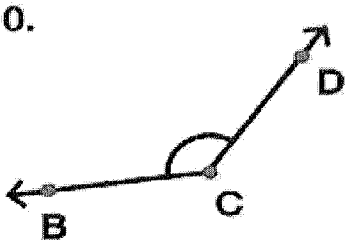
_____

8. 

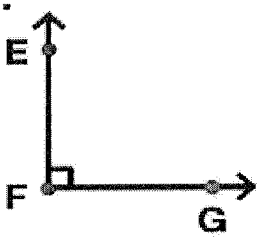
_____

9. 

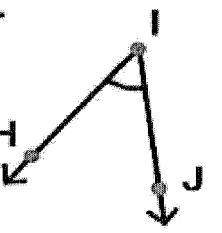
_____

10. 

_____

11. 

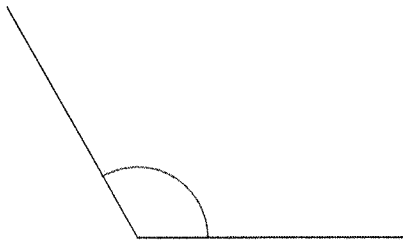
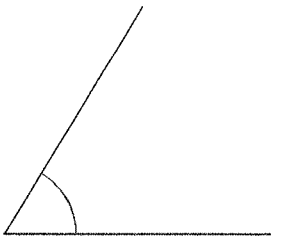
_____

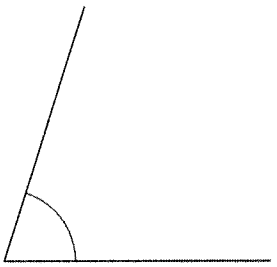
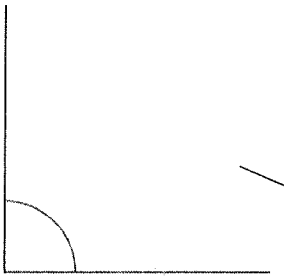
12. 

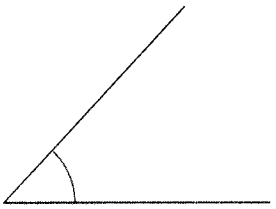
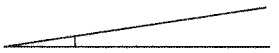
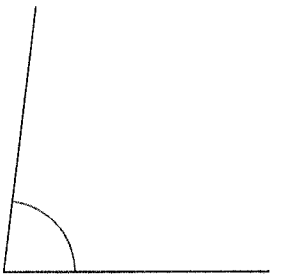
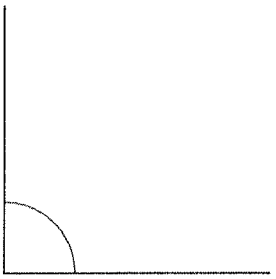
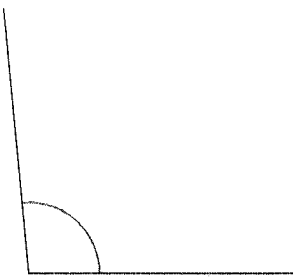
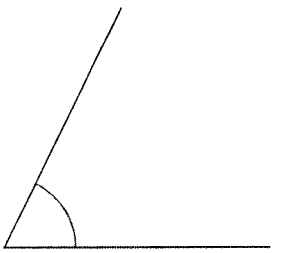
_____

Naming Angles (A)

Instructions: Name each angle as acute, obtuse, or right.

10-3

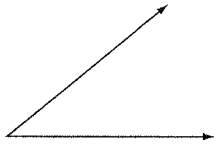
Name _____ Date _____

Homework Practice

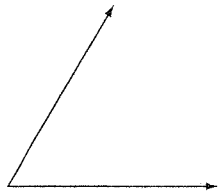
5MG2.1

Estimating and Drawing Angles

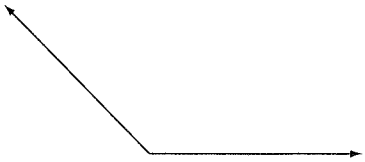
Estimate the measure of each angle.

1. 

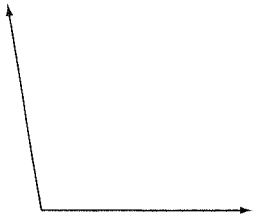
_____

3. 

_____

2. 

_____

4. 

_____

Use a protractor and a straightedge to draw angles having the following measurements.

5. 155°

_____

6. 75°

_____

7. Look at the letter Y. Estimate the measure of the angle inside the upper part of the Y.

_____

Spiral Review

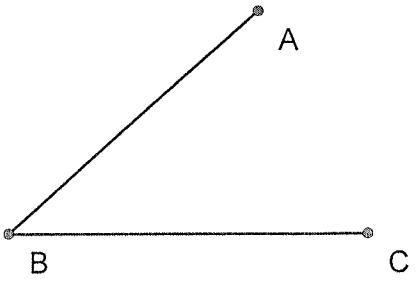
Solve. Use the *draw a diagram* strategy. (Lesson 10–2)

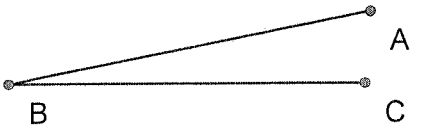
8. You have a paper money and coin collection. Your new display frame has room for one coin and one piece of paper money. How many different combinations of paper money and coin can you display in the frame if you have 5 coins and 3 pieces of paper money?

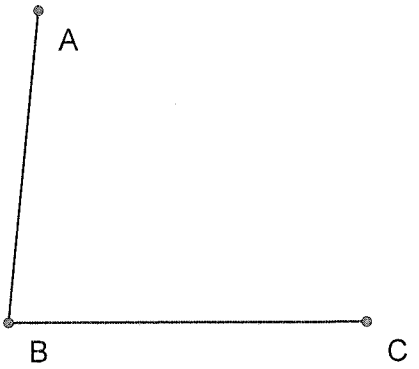
_____

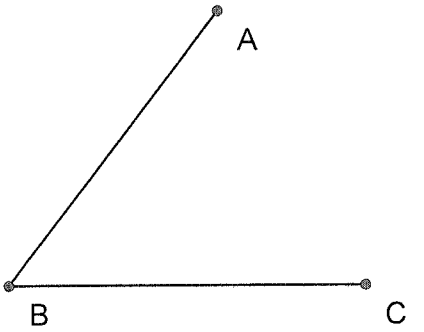
Estimating and Measuring Angles (A)

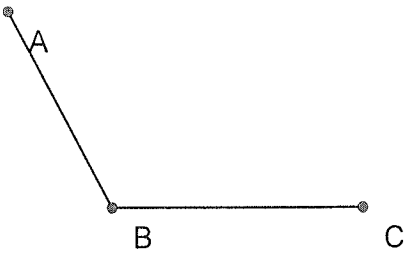
Instructions: Estimate then measure each angle below.

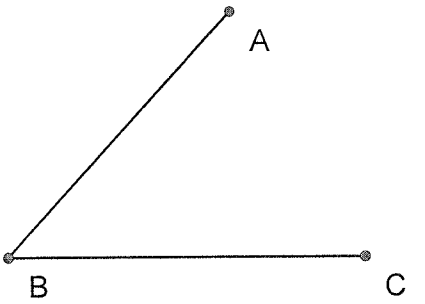












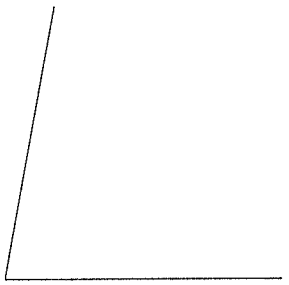
 Name_____

Angles and Their Measures

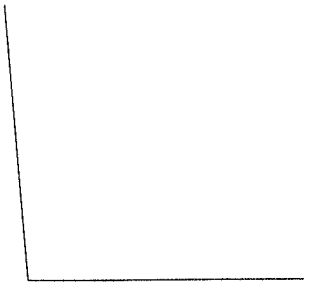
Date_____ Period____

Find the measure of each angle to the nearest degree.

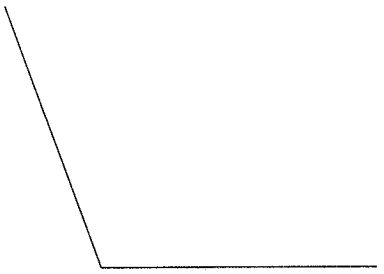
1)



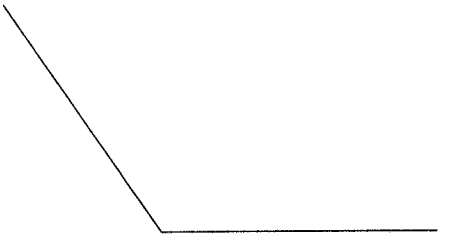
2)



3)

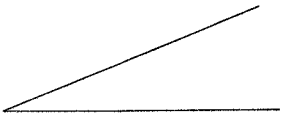


4)

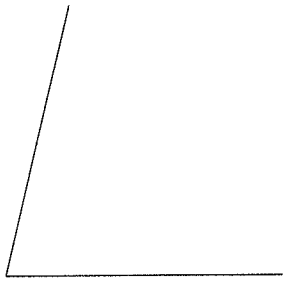


5)

6)

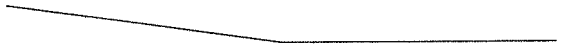


7)



8)

9)

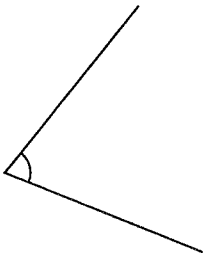


10)

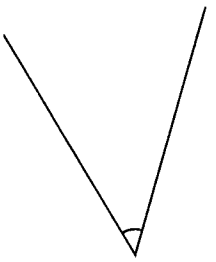
Measuring Angles

Name: _____ Date: _____

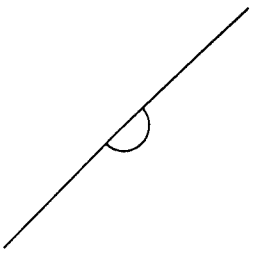
Use your protractor to extend the lines and measure each angle.

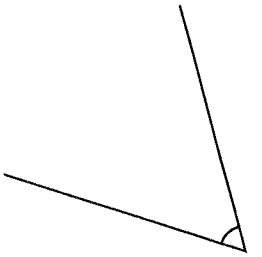
(1)  This angle is _____ degrees.

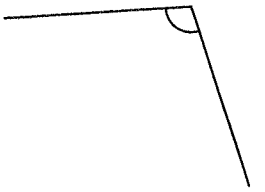
(2)  This angle is _____ degrees.

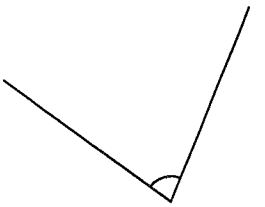
(3)  This angle is _____ degrees.

(4)  This angle is _____ degrees.

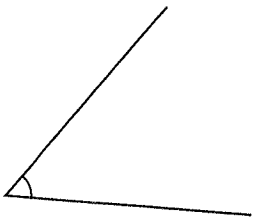
(5)  This angle is _____ degrees.

(6)  This angle is _____ degrees.

(7)  This angle is _____ degrees.

(8)  This angle is _____ degrees.

(9)  This angle is _____ degrees.

(10)  This angle is _____ degrees.

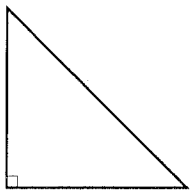
13-3

Name _____ Date _____

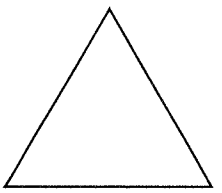
Homework Practice

Triangles

Classify each triangle drawn or having the given angle measures as *acute*, *right*, or *obtuse*.

1. 

_____

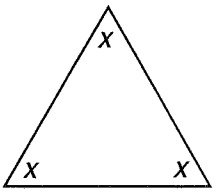
2. 

_____

3. 70°, 60°, 50°

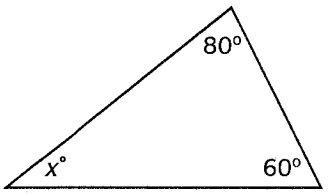
_____

The sum of the measures of the angles of a triangle is 180°. Find the value of *x* in each triangle. Then classify each triangle as *scalene*, *isosceles*, or *equilateral*.

4. 

_____

_____

5. 

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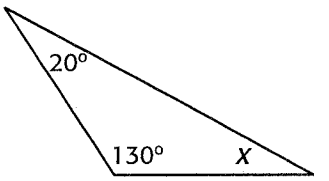
_____

6. 

_____

_____

Spiral Review

Solve. Use the logical reasoning strategy. (Lesson 13–2)

7. In August Daryl ran 3 miles every other day. In September, he ran 3.5 miles every other day. If the trend continues, how much will he run each day in October?

_____

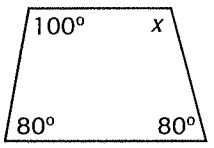
13-4

Name _____ Date _____

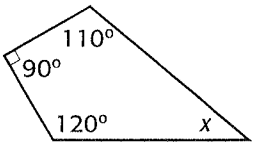
Homework Practice

Quadrilaterals

Find the value of *x* in each quadrilateral. The sum of the measures of the angles of a quadrilateral is 360°.

1. 

_____

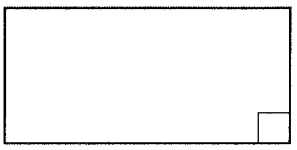
2. 

_____

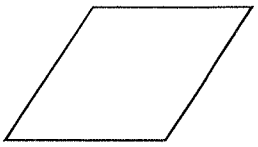
3. 75°, 85°, 115°, *x*

_____

Classify each quadrilateral using the best description.

4. 

_____

5. 

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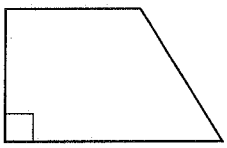
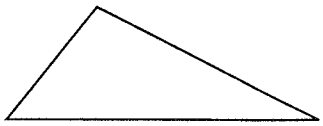
6. 

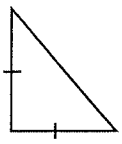
_____

Spiral Review

Find the number of congruent sides in each triangle. Then state whether any of the sides appear to be perpendicular. Write *yes* or *no*. (Lesson 13–3).

7. 

_____

8. 

_____

10-1

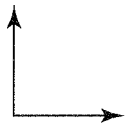
Name _____ Date _____

Homework Practice

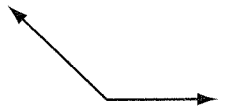
5MG2.1

Measuring Angles

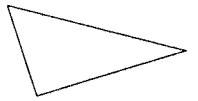
Use a protractor to find the measure of each angle. Then classify each angle as *acute, obtuse, right,* or *straight*.

1. 

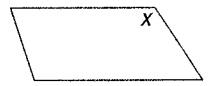
_____

2. 

_____

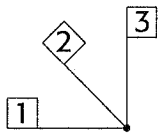
3. 

_____

4. 

_____

Use the picture to answer Exercises 5 and 6.



5. What is the measurement between flags 1 and 2?

_____

6. What is the measurement between flags 1 and 3?

_____

Spiral Review

For Exercises 7 and 8, use the following information. (Lesson 9–10)

Alex won 10 of her last 15 softball games.

7. Find the probability of Alex winning her next game.

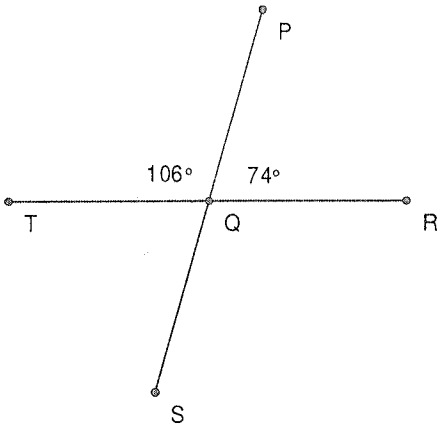
_____

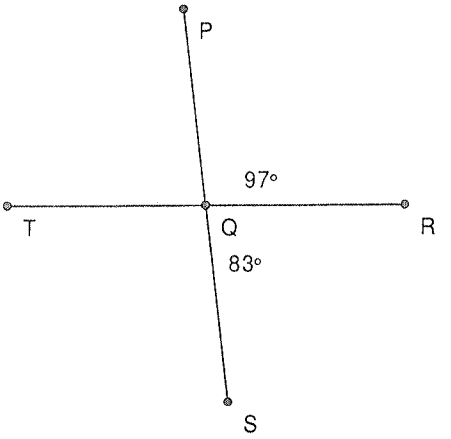
8. Suppose Alex plays 75 games. Predict how many she will win.

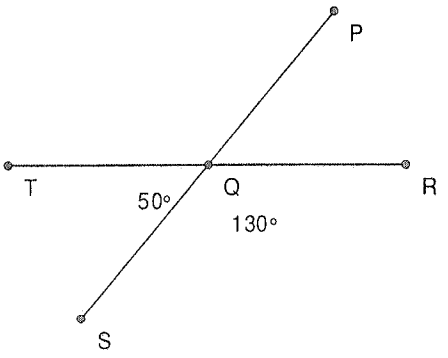
_____

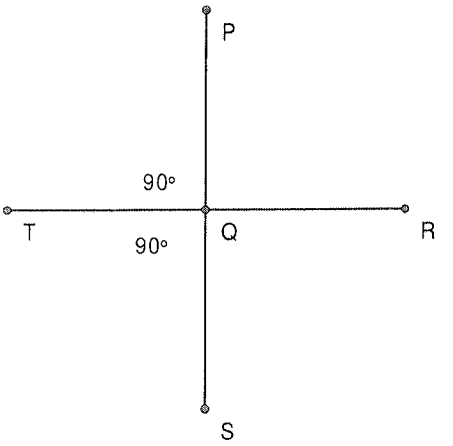
Vertical Angles (A)

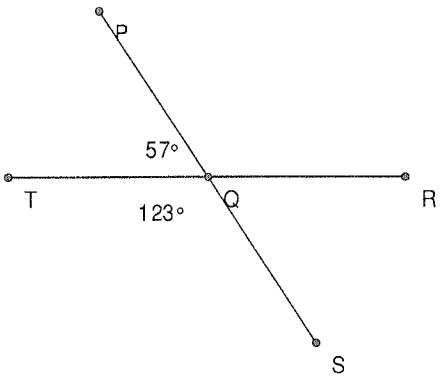
Instructions: Use your knowledge of vertical angles to find the measurements for all angles.

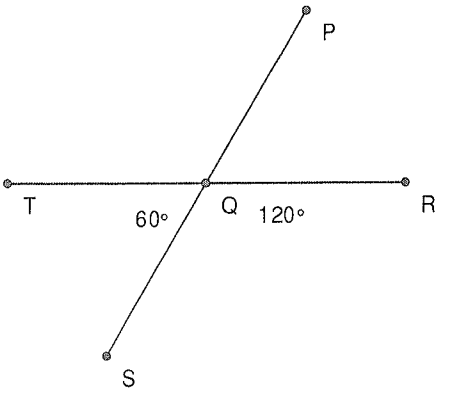






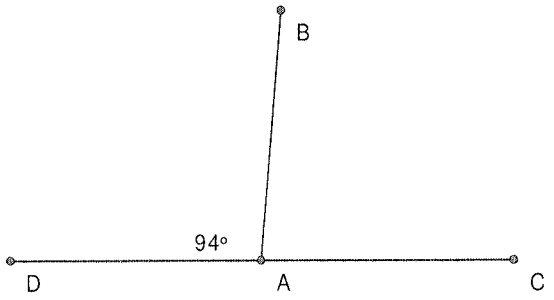


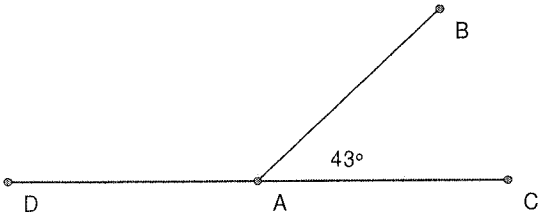


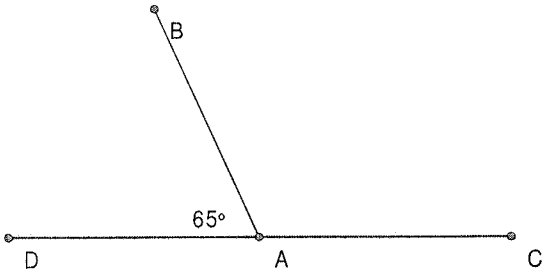


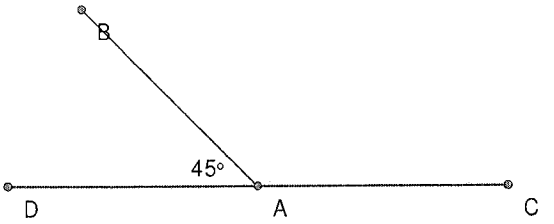
Supplementary Angles (A)

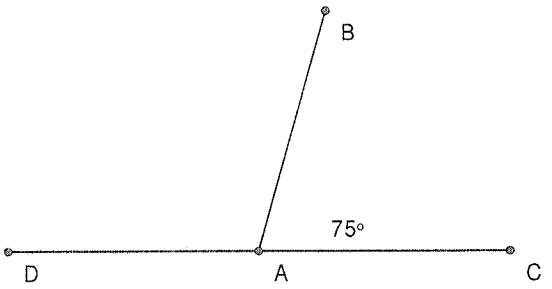
Instructions: Identify the missing angle measurement in each set of supplementary angles.

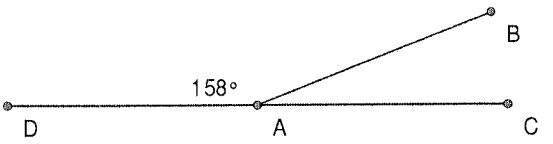


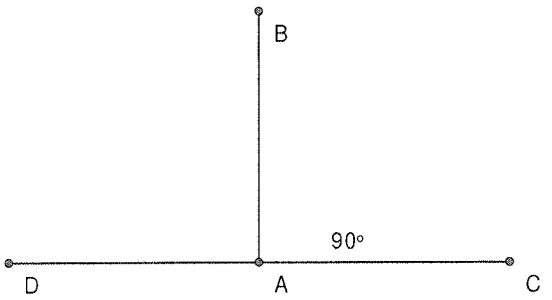


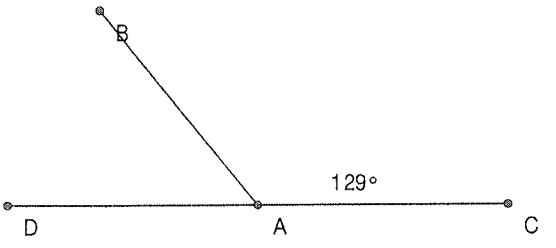






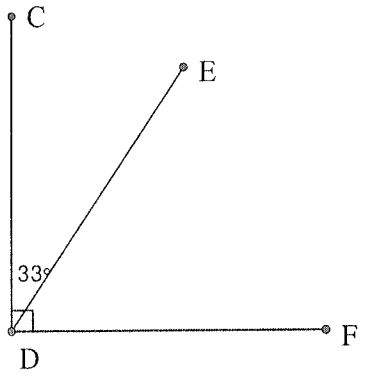


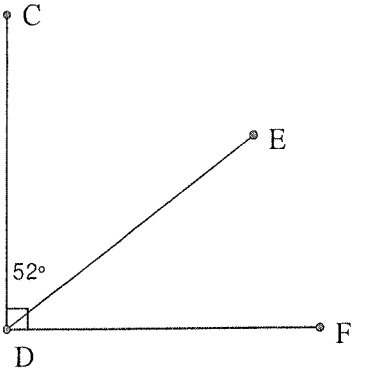


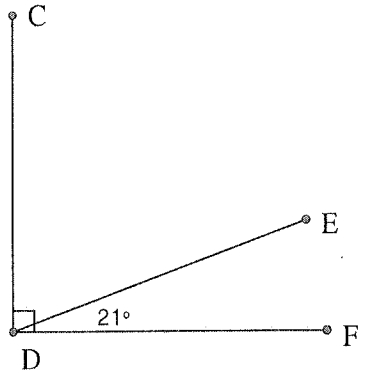


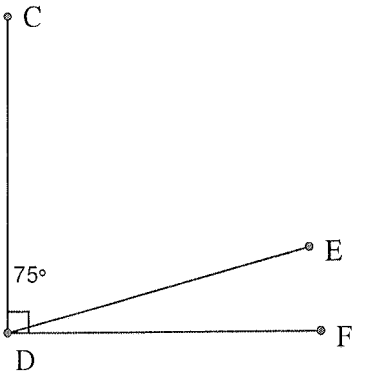
Complementary Angles (B)

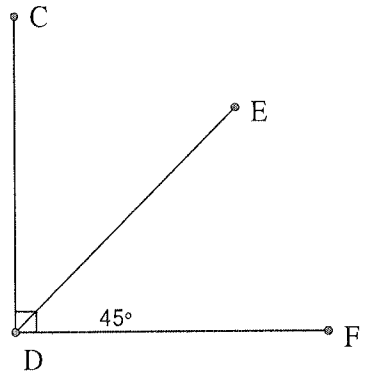
Instructions: Identify the missing angle measurement in each set of complementary angles.

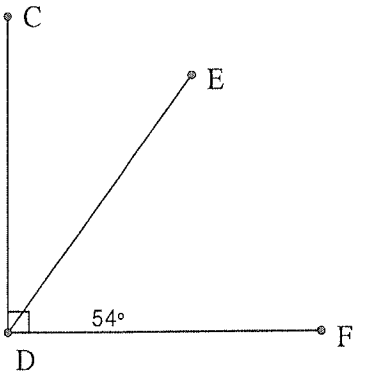












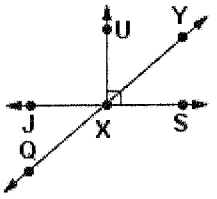
Name _____ Date _____

Angle Relationships

Complete.

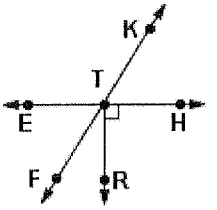
Remember: Adjacent angles add up to 180 degrees and vertical (opposite) angles are congruent (equal).

1.



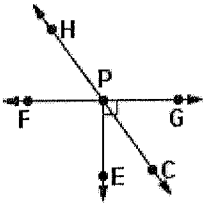
Name a pair of adjacent angles.

2.



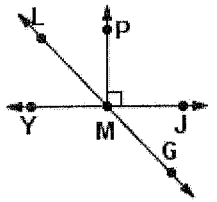
Name a pair of vertical angles.

3.



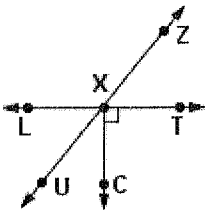
Name a pair of adjacent angles.

4.



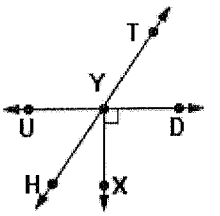
Name a pair of vertical angles.

5.



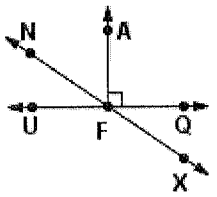
Name a pair of vertical angles.

6.



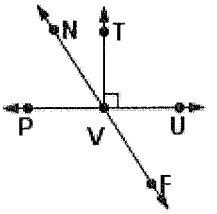
Name a pair of adjacent angles.

7.



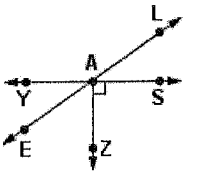
Name a pair of adjacent angles.

8.



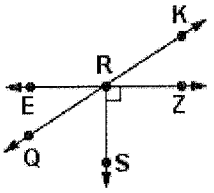
Name a pair of vertical angles.

9.



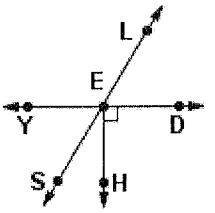
Name a pair of vertical angles.

10.



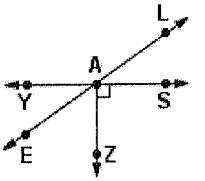
Name a pair of vertical angles.

11.



Name a pair of adjacent angles.

12.



Name a pair of adjacent angles.

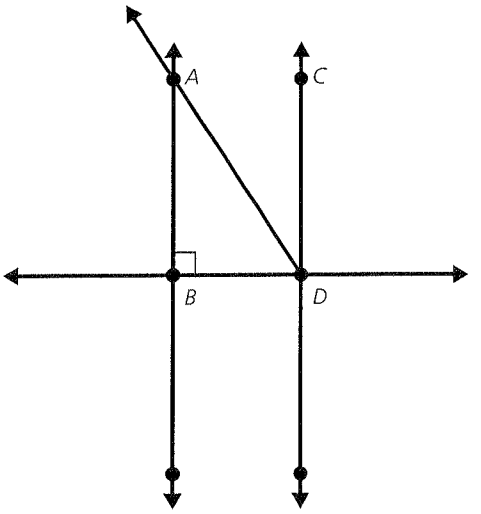
Name _____ Date _____

10–4 Homework Practice

5MG2.1

Parallel and Perpendicular Lines

Use the figure to determine if each pair of lines is *parallel, perpendicular,* or *neither*.



1. $\overline{AB}$ and $\overline{CD}$

_____

2. $\overline{BD}$ and $\overline{CD}$

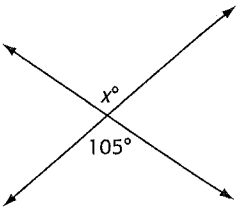
_____

3. $\overline{AD}$ and $\overline{CD}$

_____

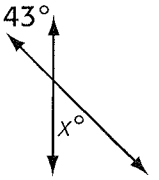
Find the value of *x* in each figure.

4.



_____

5.



_____

Spiral Review

Solve. Use a protractor and a straightedge to draw angles having the following measurements. (Lesson 10–3)

6. 33°

7. 109°

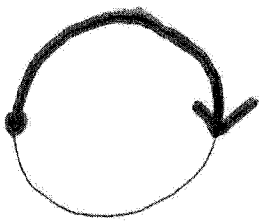
8. 130°

_____ _____ _____

Name: _____ Number: _____

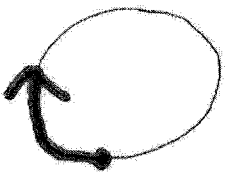
Homework

Label the circles below. Write the measurement of the angle in degrees and write the type of turn.

1.) 

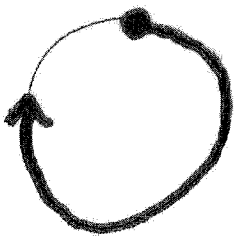
d: _____

t: _____

2.) 

_____

_____

3.) 

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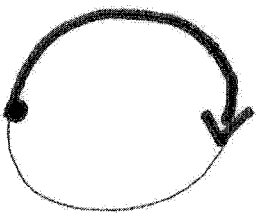
4.) 

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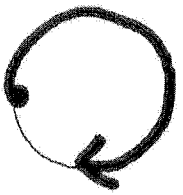
5.) 

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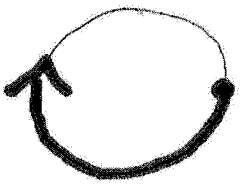
6.) 

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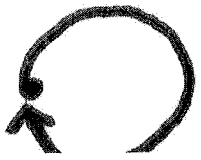
7.) 

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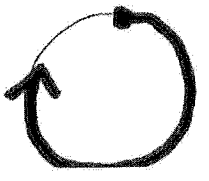
8.) 

_____

_____

Name _____ Date _____

6-4

Homework Practice

Geometry: Ordered Pairs

Name the point for each ordered pair.

1. (1, 2) _____

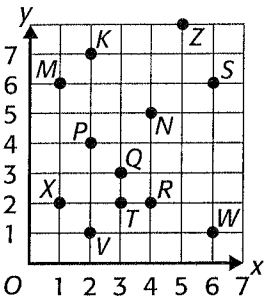
2. (3, 3) _____

3. (5, 8) _____

5. (4, 2) _____

6. (6, 1) _____

7. (2, 1) _____



Name the ordered pair for each point.

8. *P* _____

9. *S* _____

10. *M* _____

11. *N* _____

12. *T* _____

13. *K* _____

Spiral Review

Solve. Use the *make a table* strategy. (Lesson 6-3)

14. A recipe for pizza crust calls for 3 cups of flour for every 1 cup of water. How many cups of water are needed for 21 cups of flour?

_____

15. Kristy bought a package of mini muffins for $3. Each package contains 12 mini muffins. If Kristy has 60 mini muffins, how much money did she spend?

_____

16. Andrew is saving to buy a tree house. He saves $2 the first week, $6 the second week, $10 the third week, and so on. How much money will he have saved in 8 weeks?

_____

17. Brett is planning to buy a digital camera. Each month he doubles the amount he saved in the previous month. If he saves $15 the first month, how much money will Brett have saved in 6 months?

_____

7-8

Name _____ Date _____

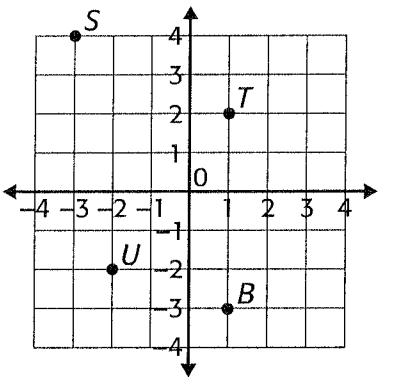
Homework Practice

5AF1.4

The Coordinate Plane

Chapter Resources

Use the coordinate plane at the right. Identify the point for each ordered pair.



1. (3, 4) _____

2. (−4, 3) _____

3. (−4, −4) _____

4. (−2, 2) _____

Write the ordered pair that names each point. Then, identify the quadrant where each point is located.

5. *T* _____

6. *S* _____

7. *U* _____

8. *B* _____

Graph and label each point on a coordinate plane.

9. *N* (2, 1)

10. *M* (−3, −2)

11. *P* (−3, 2)

12. *F* (2, −2)

Spiral Review

Use any strategy shown below to solve. (Lesson 7–7)

The four-step plan
Logical reasoning
Work backward
Guess and check

13. Sean needs to be at practice at 10:00 A.M. every Saturday. It takes him 30 minutes to walk to practice, 30 minutes to get ready, and 10 minutes to organize his equipment. What is the latest time he should start getting ready for practice?

_____

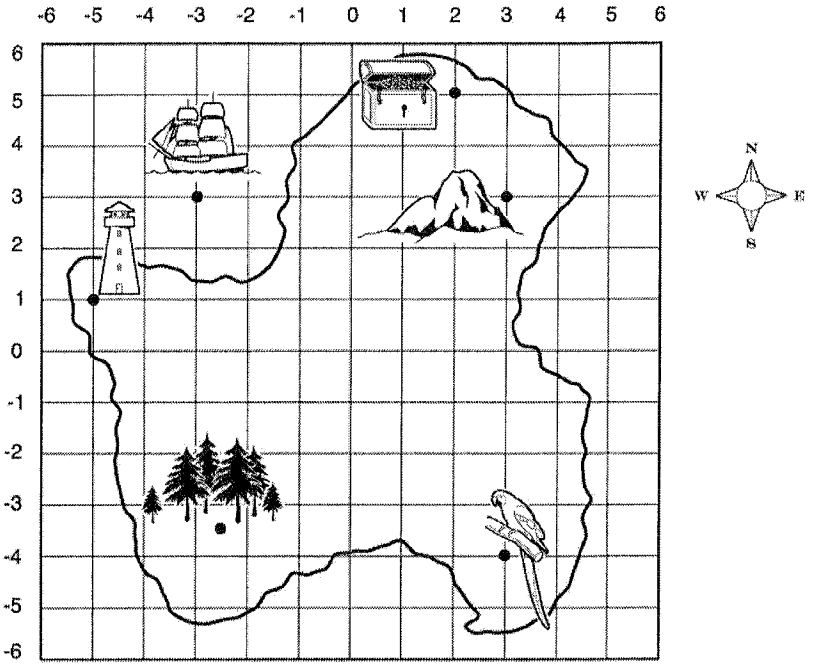
7-8

Name _____ Date _____

Problem-Solving Practice

5AF1.4

The Coordinate Plane



1. What are the coordinates of the pirate ship? In which quadrant is it located?

_____

2. What is located at the ordered pair (−2.5, −3.5)?

_____

3. Begin at the lookout tower. Travel east 7 units and north 4 units. Where are you?

_____

4. Which is the farthest south: the buried treasure, the mountain, or the parrot?

_____

6-5

Name _____ Date _____

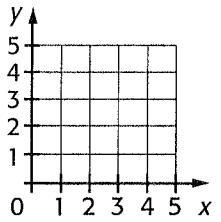
Homework Practice

Algebra and Geometry: Graph Functions

Complete the table. Then graph the ordered pairs.

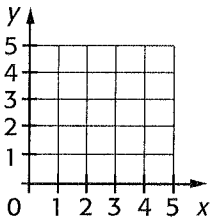
1. $y = x$

x	1	2	3	4
y	1			



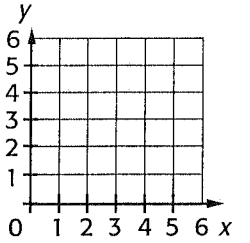
2. $y = x + 2$

x	0	1	2	3
y	2			



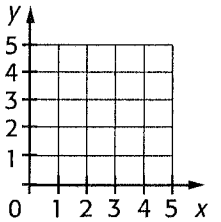
3. $y = 2x$

x	0	1	2	3
y				



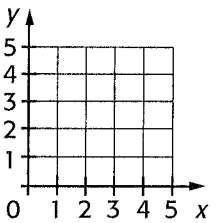
4. $y = 2x - 1$

x	1	2	3	4
y				



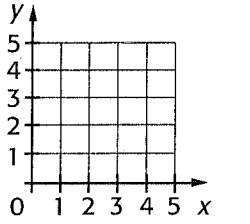
5. $y = x + 1$

x	0	1	2	3
y				



6. $y = x - 1$

x	1	2	3	4
y				



Spiral Review

The graph at the right shows the amount of fuel a car uses for different distances traveled.

Use the graph to find the number of gallons of gasoline used for each distance. (Lesson 6–4)

7. 90 mi _____ **8.** 210 mi _____

9. 120 mi _____ **10.** 270 mi _____

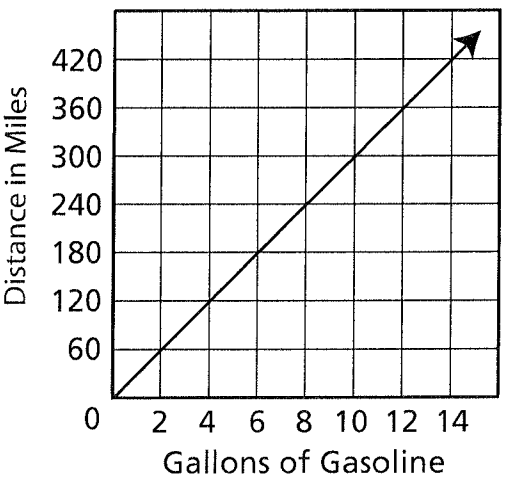
11. 330 mi _____ **12.** 300 mi _____

13. 60 mi _____ **14.** 150 mi _____

15. 360 mi _____ **16.** 180 mi _____

17. How many miles per gallon of gasoline does this car get?

_____



6-6

Name _____ Date _____

Homework Practice

Functions and Equations

Complete the table. Write an equation to show the relationship.

1.

Input	x	0	1	2	3	4	5
Output	y	4	10	16	22		

_____

2.

Input	x	0	1	2	3	4	5
Output	y	3	5	7	9		

_____

Write an equation for the function described in words. Tell what each variable in the equation represents.

3. The price equals 5 plus 4 for each additional ride.

_____

4. The total equals 12 minus 6 for each item.

_____

Spiral Review

Graph and label each point on a coordinate grid. (Lesson 6–5)

5. *B* (3, 4)

6. *Y* (6, 6)

7. *C* (5, 2)

8. *M* (6, 0)

9. *R* (4, 2)

10. *S* (3, 1)