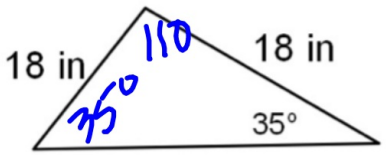
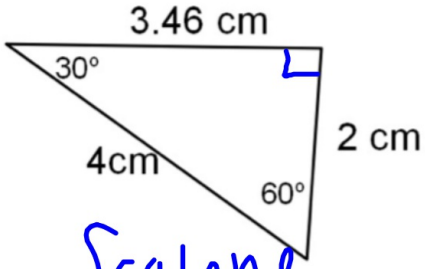
Name each triangle by its sides and its angles.

1.



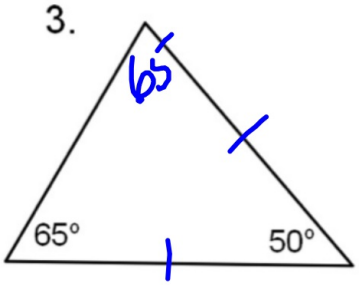
Isos. obtuse

2.



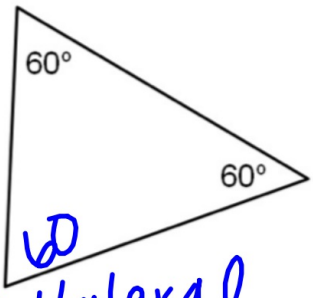
Scalene right.

3.



acute isosceles

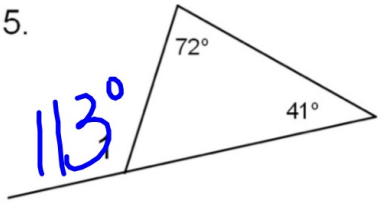
4.



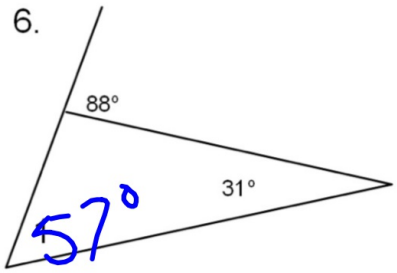
equilateral equiang.

Find the measure of angle 1 in each diagram.

5.

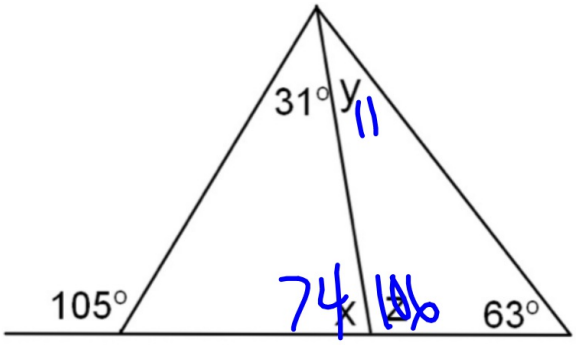


6.

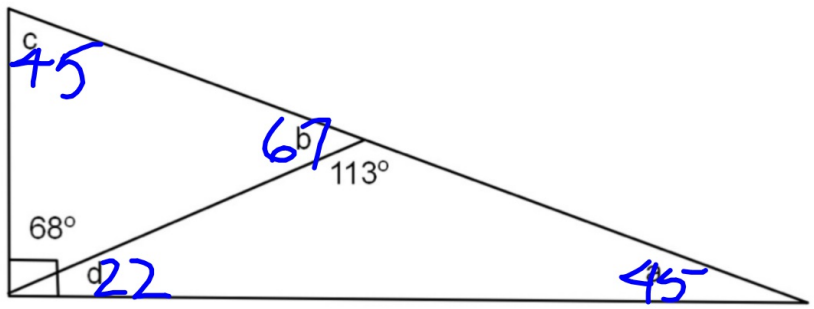


The measure of an exterior angle of a triangle
is equal to the sum of the remote interior angles.

7. Find the value of x, y and z.



8. Find the value of each variable.



Hwk #17 Answers:

4. x = 70; y = 110; z = 30 5. x = 80; y = 80 6. c = 60

16.
a. 5, 8, 6
b. Angle 5's remote interior angles are 1 and 3
c. Angle 8 and 6's remote interior angles are 1 and 2

17.
a. None at vertex 1; one at vertex 2; two at vertex 3.
b. A triangle can have a total of 6 exterior angles, 2 at each vertex.

18. 123° 19. 115.5° 20. Angle 3 = 92; Angle 4 = 88

25. x = 38, y = 36, z = 90; right triangle 31. 30° and 60°

26. a = 67, b = 58, c = 125, d = 23, e = 90 32. a. 40°, 60°, 80° b. scalene

ΔFGH; 58, 67, 55; acute

ΔFEH; 125, 32, 23; obtuse

ΔEFG; 67, 23, 90; right

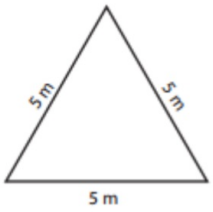
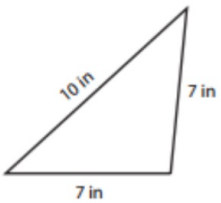
31. **Algebra** A right triangle has acute angles whose measures are in the ratio 1 : 2. Find the measures of these angles.

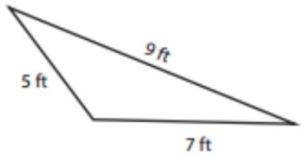
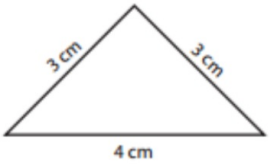
32. **a.** **Algebra** The ratio of the angle measures in $\triangle BCR$ is 2 : 3 : 4. Find the angle measures.

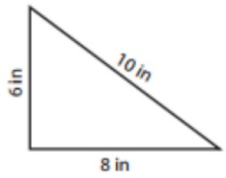
b. What type of triangle is $\triangle BCR$?

H. Geometry Classifying Triangles #1

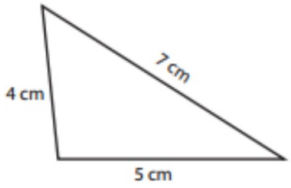
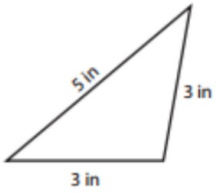
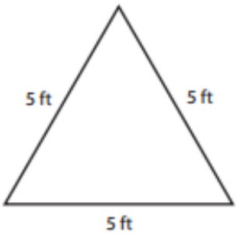
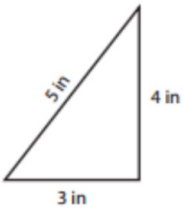
Put a check mark in EACH box that describes the given triangle.

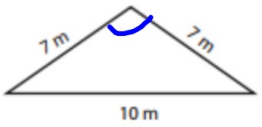
Triangle	Equilateral	Isosceles	Scalene	Acute	Obtuse	Right
1) 	✓			✓		
2) 		✓			✓	

3) 			✓		✓	
4) 		✓				✓

5) 			✓			✓

Put a check mark in EACH box that describes the given triangle.

Triangle	Equilateral	Isosceles	Scalene	Acute	Obtuse	Right
1) 			✓		✓	
2) 		✓			✓	
3) 	✓			✓		
4) 			✓			✓

5) 		✓			✓	

Classwork: Practice 3.4 Worksheet

IXL #9 - D.7 and F.1 due Friday at 4pm!