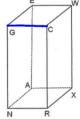
For questions 1-10, use a number or one of the following words to complete the sentences: collinear, non-collinear, endpoint(s), perpendicular, parallel, vertex, capital, opposite rays To draw a line segment, I need exactly points.

To name a line segment, I use the 2. To name an angle, I must use points. The Vertical be the 2<sup>nd</sup> point. 3. To name a ray, I use points. The first point must be the Points are named with Capital etter(s). 5. Two rays which together form a straight line are called Opp. Rays 6. 7. Two lines that meet at 90° angles are called 8. Two lines that are in the same plane and never intersect are called lines. 9.

Chapter 1 and 2 Use the figure below for 1 to 8.



1. Name the intersection of planes WEG and CRX CW

Name the intersection of XA&NA
 Name a point that is coplanar with W, X, and E
 Name a plane that is parallel to GNA

5. Name a segment that is parallel to  $\overline{CR}$ 

6. Name a segment that is skew to  $\overline{WE}$ 

7. Point C is formed by the intersection of GC and NC

8.  $\overline{GC}$  is formed by the intersection of  $\overline{GC}$  and  $\overline{GC}$ 

For questions 10-17, use the diagram at the right. Please use the correct symbol for naming lines, rays, segments, and angles

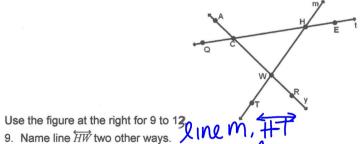
Name 2-line segments: Band 65

Name a right angle: 
AGF

Name a line perpendicular to  $\overrightarrow{GF}$ .

Name 3 points that are collinear A. G. and

Name 3 points that are non-collinear:



10. Name a point that is collinear with C and R. • A

11. Name the intersection of line t and  $\overrightarrow{WR} \cdot \cancel{C}$ 

12. Name a ray that is opposite of  $\overrightarrow{HE}$ Fill in the blanks.

13.  $\overline{QC} + \overline{\nabla C} = \overline{QE}$  14.  $\overline{CW} + \overline{WR} = \overline{CR}$ 

14. Name the highlighted ray.

		4-		-0		
4	N	A	c	X	K	

15. Name the highlighted segment.



2. Write down ALL of the steps it takes to solve the given equation for x. Give a reason for each of the steps. Given: 9x + 3(x - 4) + 2 = 74

ax +3x-12+2=74 Combline like terms 12 x-10=74 Combline like terms 12 x = 84 Combline like terms 12 x = 7 Combline like terms 12 x = 7 Combline like terms 12 x = 84 Combline like terms

1. Write down ALL of the steps it takes to solve the given equation for x. Give a reason for each of the steps. Given: 10x + 11 + 2x = 59

Steps

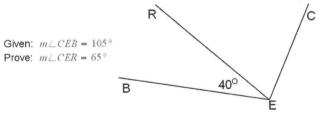
1. 10x + 11 + 2x = 59

2. 12x + 11 = 59

3. 12x + 11 - 11 = 59 - 11

4. 12x = 48

3. Provide the reasons for each step.



Steps

1.  $m \angle CER + m \angle REB = m \angle CEB$ 

2.  $m \angle CER + 40^{\circ} = 105^{\circ}$ 

3.  $m \angle CER = 65^{\circ}$ 

4. Provide the reasons for each step.

Given: J is the midpoint of  $\overline{AZ}$ 

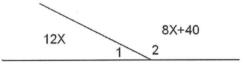


## Steps

- J is the midpoint of  $\overline{AZ}$
- AJ = JZ
- 2x + 8 = 4x
- 8 = 2x
- 4 = x
- x = 4

- allywoh

6. Provide the reasons for each step.



## Steps

- 1.  $m \angle 1 + m \angle 2 = 180^{\circ}$
- 2.  $12x + 8x + 40 = 180^{\circ}$
- 3.  $20x + 40 = 180^{\circ}$
- 4.  $20x = 140^{\circ}$
- 5.  $x = 70^{\circ}$

- ons le of suppl.
- combine like terms
- subt!
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5. Provide the reasons for each step.

Given: TC = 22



Steps

- 1. TQ + QC = TC
- 2. 3x 5 + 2x + 7 = 22
- 3. 5x + 2 = 22
- 4. 5x = 20
- 5. x = 4

- Reasons Segment Add

- OFIN ISLOW

- 7. Use the given property to complete each statement.
- (a). Use the Addition Property of Equality: If 9x 12 = 42, then
- (b). Use the Multiplication Property of Equality: If  $\frac{x}{2} = 20$ , then
- LABC = LABC (c). Reflexive Property
- 4d). Transitive Property If MC = RW and RW = QT and QT = GIf  $\angle CAD \cong \angle EXQ$ , then  $\angle EXQ$ (e). Symmetric Property
- If AB + BQ = AQ and BQ = 12, then (f). Substitution Property

