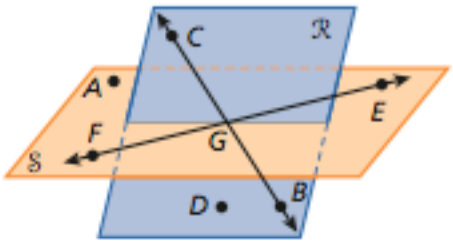
Name:_____
Date:_____Period:_____

Chapter 1 Review

**** SHOW ALL WORK ON A SEPARATE PIECE OF PAPER***

Name each of the following.



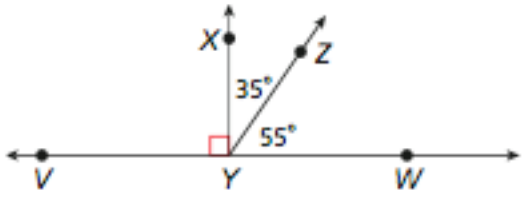
4. four coplanar points
5. line containing B and C
6. plane that contains A, G, and E

Draw and label each of the following.

7. line containing P and Q
8. pair of opposite rays both containing C
9. $\overleftrightarrow{CD}$ intersecting plane $\mathcal{P}$ at B

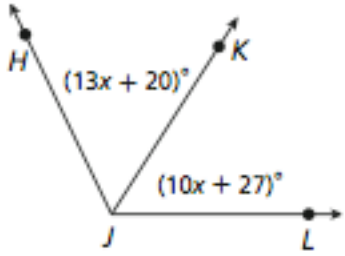
EXERCISES

16. Classify each angle as acute, right, or obtuse.



17. $m\angle HJL = 116°$. Find $m\angle HJK$.

18. $\overrightarrow{NP}$ bisects $\angle MNQ$, $m\angle MNP = (6x - 12)°$, and $m\angle PNQ = (4x + 8)°$. Find $m\angle MNQ$.

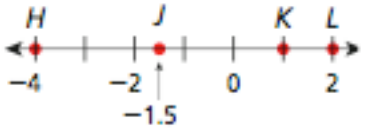


EXERCISES

Find each length.

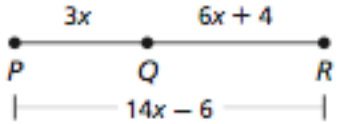
10. JL

11. HK



12. Y is between X and Z, $XY = 13.8$, and $XZ = 21.4$. Find YZ.

13. Q is between P and R. Find PR.

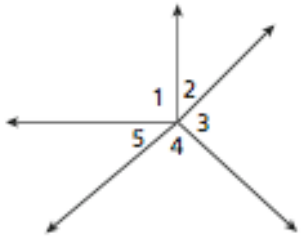


14. U is the midpoint of $\overline{TV}$, $TU = 3x + 4$, and $UV = 5x - 2$. Find TU, UV, and TV.

15. E is the midpoint of $\overline{DF}$, $DE = 9x$, and $EF = 4x + 10$. Find DE, EF, and DF.

Tell whether the angles are only adjacent, adjacent and form a linear pair, or not adjacent.

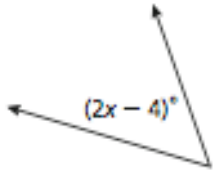
19. $\angle 1$ and $\angle 2$
20. $\angle 3$ and $\angle 4$
21. $\angle 2$ and $\angle 5$



Find the measure of the complement and supplement of each angle.

22.

23.



24. An angle measures 5 degrees more than 4 times its complement. Find the measure of the angle.

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Chapter 1 Review

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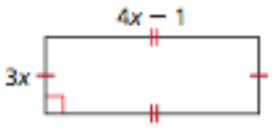
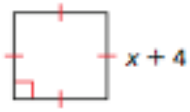
Find the perimeter and area of each figure.

25.



26.



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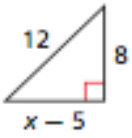

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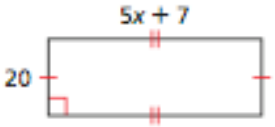
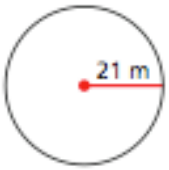
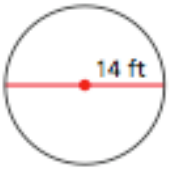


Find the circumference and area of each circle to the nearest tenth.

29.



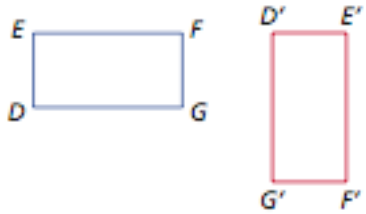
30.



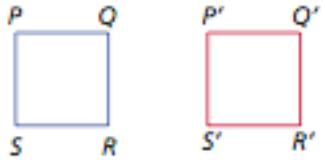
31. The area of a triangle is 102 m^2. The base of the triangle is 17 m. What is the height of the triangle?

Identify each transformation. Then use arrow notation to describe the transformation.

38.



39.



40. The coordinates for the vertices of $\triangle XYZ$ are $X(-5, -4)$, $Y(-3, -1)$, and $Z(-2, -2)$. Find the coordinates for the image of $\triangle XYZ$ after the translation $(x, y) \rightarrow (x + 4, y + 5)$.

Y is the midpoint of $\overline{AB}$. Find the missing coordinates of each point.

32. $A(3, 2)$; $B(-1, 4)$; $Y(\blacksquare, \blacksquare)$

33. $A(5, 0)$; $B(\blacksquare, \blacksquare)$; $Y(-2, 3)$

34. $A(\blacksquare, \blacksquare)$; $B(-4, 4)$; $Y(-2, 3)$

Use the Distance Formula and the Pythagorean Theorem to find the distance, to the nearest tenth, between each pair of points.

35. $X(-2, 4)$ and $Y(6, 1)$

36. $H(0, 3)$ and $K(-2, -4)$

37. $L(-4, 2)$ and $M(3, -2)$