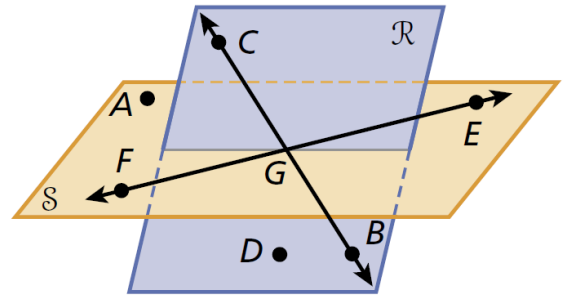


Geometry Chapter 1 Review

Lesson 1.1: Geometry Foundations

1. Name 3 collinear points on plane R.
2. Give another name for plane S.
3. Name the intersection of line BC and Plane S.
4. Name a ray with endpoint E.

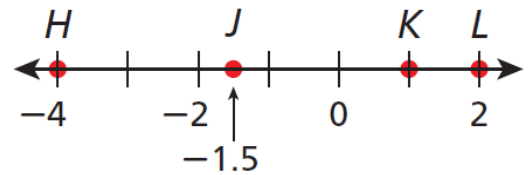


Lesson 1.2: Measuring and Constructing Segments

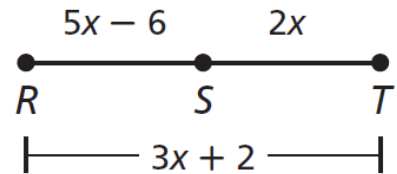
5. Find each length.

a. JL

b. HK

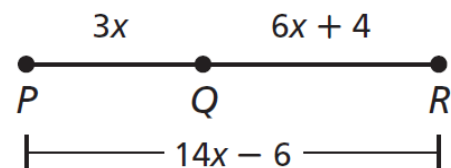


6. S is between R and T. Find RT.



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

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



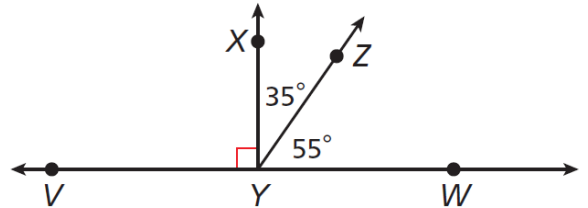
9. U is the Midpoint of TV, $TU = 3X + 4$, and $UV = 5X - 2$. Find TU, UV, and TV.

10. E is the midpoint of DF, $DE = 9X$, and $EF = 4X + 10$. Find DE, EF, and DF.

Lesson 1.3 - Measuring Angles

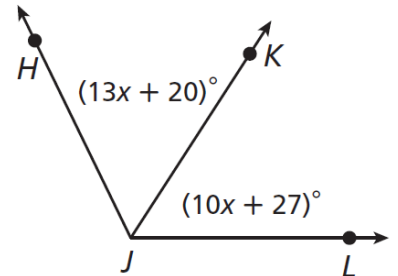
11. Classify each angle as acute, right, or obtuse.

- a. $\angle XYW$ b. $\angle ZYV$ c. $\angle XYZ$



Use the figure to the right to answer 12.

12. If $m\angle HJL = 116^\circ$, find the $m\angle HJK$.

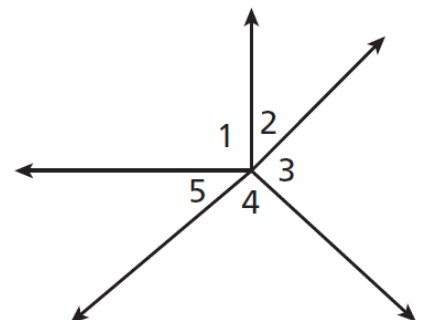


13. \overrightarrow{NP} bisects $\angle MNQ$, $m\angle MNP = (6x - 12)^\circ$, and $m\angle PNQ = (4x + 8)^\circ$. Find $m\angle MNQ$.

Lesson 1.4 - Angle Pairs

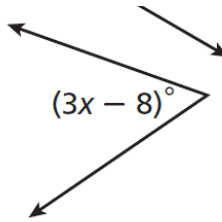
Tell whether the angles are only adjacent, adjacent and linear pair, or not adjacent.

14. $\angle 1$ and $\angle 2$ 15. $\angle 3$ and $\angle 4$ 16. $\angle 2$ and $\angle 5$

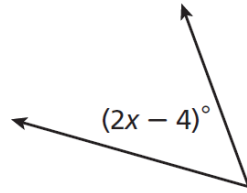


Find the measure of the complement or supplement of each angle.

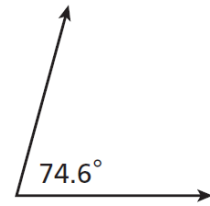
17. Find the Complement



18. Find the Supplement



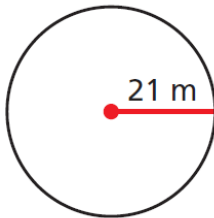
19. Find the Complement



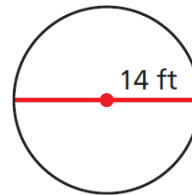
Lesson 1.5 - Using Formulas in Geometry

Find the circumference and area of each circle. Answer in terms of π .

20.



21.



22. Find the perimeter of a square whose side lengths are 4.5 inches long.

23. The area of a triangle is 102 m^2 . The base of the triangle is 17 m. Find the height.

Lesson 1.6 - Midpoint and Distance Formulas

24. What is the distance from X(-2, 4) & Y(6,1) 25. What is the distance from L(-4, 2) and M(3, -2)

26. Given \overline{AY} with endpoints A(5, 9) and Y(-11, 3), what are the coordinates for the midpoint?

27. B is the midpoint of \overline{AY} . A has coordinates (3, 2) and B has coordinates (-1,4). What are the coordinates of Y?

29. You have a piece of string 5 feet long. Which of these shapes could the string make?

- a. A rectangle with length 20 inches and width 5 inches
- b. A square with side length 4 feet long.
- c. A circle with circle with radius 94.25 inches
- d. A rectangle with length 5 feet and width 1 foot.

30. Find the area of a circle whose circumference is 14π cm.

31. Find the circumference of a circle whose area is 36π cm²