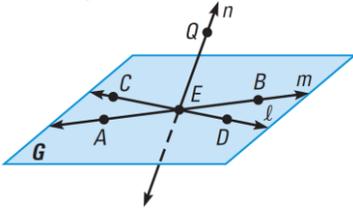


Geometry Chapter 1 Review

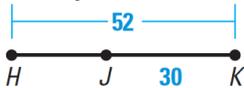
Use the diagram to decide whether the statement is true or false.



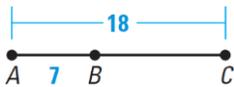
- Point A lies on line m .
- Point D lies on line n .
- Points $B, C, E,$ and Q are coplanar.
- Points $C, E,$ and B are collinear.
- Another name for plane G is plane QEC .

Find the indicated length.

6. Find HJ .



7. Find BC .



8. Find XZ .



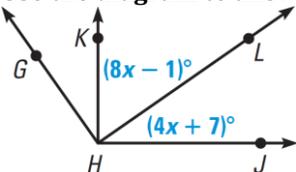
Find the distance between the two points. Round to the nearest tenth.

- $T(3, 4)$ and $W(2, 7)$
- $C(5, 10)$ and $D(6, 21)$
- $M(28, 0)$ and $N(21, 3)$

Find the midpoint between the two points.

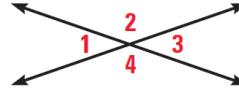
- $T(3, 4)$ and $W(2, 7)$
- $C(5, 10)$ and $D(6, 21)$
- $M(28, 0)$ and $N(21, 3)$
- Line t bisects \overline{CD} at point M , $CM = 3x$, and $MD = 27$. Find CD .

Use the diagram to answer the follow questions.



- Classify $\angle GHJ$ as acute, obtuse, right, or straight.
- If \overline{HL} is an angle bisector of $\angle KHJ$, find the value of x .

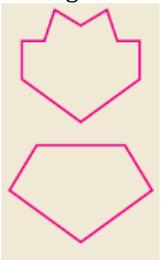
Classify each angle pair as *linear pair*, *vertical angles*, or *neither*.



- $\angle 1$ and $\angle 3$
- $\angle 2$ and $\angle 3$
- The measure of an angle is 64° . What is the measure of its complement? What is the measure of its supplement?
- A convex polygon has half as many sides as a concave 10-gon. Draw the concave polygon and the convex polygon. Classify the convex polygon by the number of sides it has.
- Find the area of $\triangle ABC$ if $A(1, 4)$, $B(3, -1)$, and $C(-2, -1)$

Answers

1. True
2. False
3. False
4. False
5. False
6. 22
7. 11
8. 71
9. 3.2
10. 11.0
11. 7.6
12. $\left(\frac{5}{2}, \frac{11}{2}\right)$
13. $\left(\frac{11}{2}, \frac{31}{2}\right)$
14. $\left(\frac{49}{2}, \frac{3}{2}\right)$
15. 54
16. Obtuse
17. 2
18. Vertical angles
19. Linear pair
20. $26^\circ, 116^\circ$
21. Pentagon



22. 12.5 units²