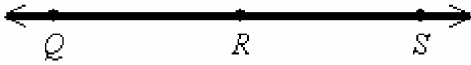


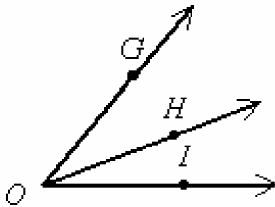
**Geometry Mastery Test #1 Review #2**

**Short Answer**

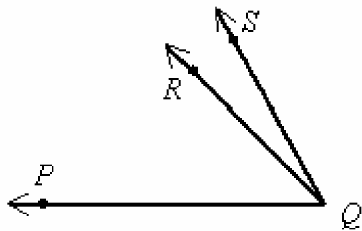
1. If  $RS = 35.2$  and  $QS = 72$ , find  $QR$ .



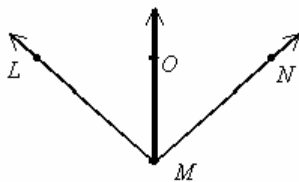
2. Find the distance between the points  $(1, -2)$  and  $(-4, -3)$ .  
 3. Find the midpoint of the segment with endpoints  $(-6, -8)$  and  $(7, 6)$ .  
 4. If  $m\angle HOI = 21^\circ$  and  $m\angle GOI = 50^\circ$ , then what is the measure of  $\angle GOH$ ?



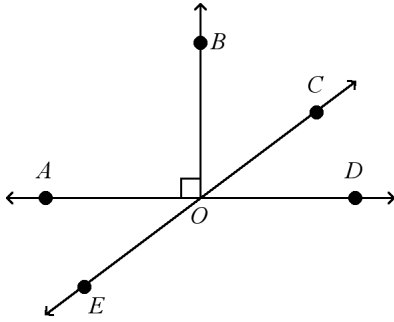
5.  $m\angle SQR = (2x + 6)^\circ$  and  $m\angle PQR = (10x - 5)^\circ$  and  $m\angle SQP = 61^\circ$ .  
 Find  $m\angle SQR$  and  $m\angle PQR$ .



6. In the figure (not drawn to scale),  $\overrightarrow{MO}$  bisects  $\angle LMN$ ,  $m\angle LMO = (5x - 24)^\circ$ , and  $m\angle NMO = (x + 52)^\circ$ .  
 Solve for  $x$  and find  $m\angle LMN$ .

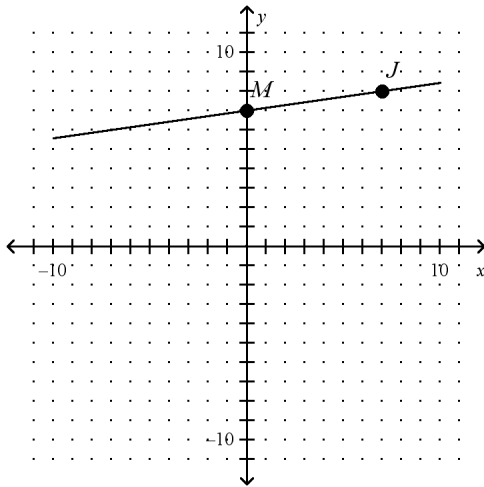


7. Name an angle *supplementary* to  $\angle DOE$ .



**Complete the conditional statement to make a true statement.**

8. If  $\angle R$  and  $\angle S$  are complementary and  $m\angle R = 15^\circ$ , then \_\_\_\_\_.
9. If  $\angle G$  and  $\angle H$  are supplementary and  $m\angle H = 69^\circ$ , then \_\_\_\_\_.
10. Name a polygon with 8 sides.
11. The midpoint of  $\overline{JK}$  is  $M(0, 7)$ . One endpoint is  $J(7, 8)$ . Find the coordinates of the other endpoint.

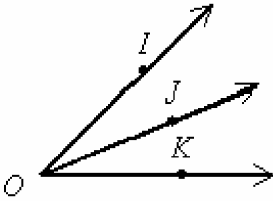


12. Determine the coordinates of the midpoint of  $\overline{YZ}$  and find the approximate distance  $YZ$  for the points  $Y(3, -6)$  and  $Z(4, 7)$ .
13. Find the midpoint of the segment with endpoints  $(1, -1)$  and  $(-17, 17)$ .

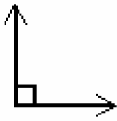
Name: \_\_\_\_\_

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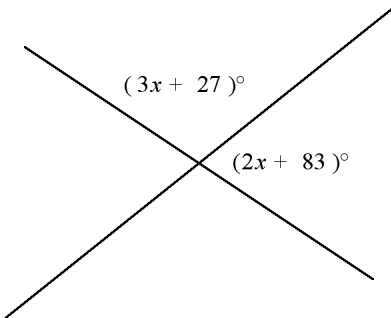
14. If  $m\angle IOJ = 22^\circ$  and  $m\angle JOK = 21^\circ$ , then what is the measure of  $\angle IOK$ ?



15. Classify the angle as right, acute, or obtuse.



16. Solve for  $x$ :



**Geometry Mastery Test #1 Review #2  
Answer Section****SHORT ANSWER**

1. 36.8
2.  $\sqrt{26}$
3.  $(\frac{1}{2}, -1)$
4.  $29^\circ$
5.  $m\angle SQR = 16^\circ$  and  $m\angle PQR = 45^\circ$
6. 19,  $142^\circ$
7.  $\angle COD$
8.  $m\angle S = 75^\circ$
9.  $m\angle G = 111^\circ$
10. octagon
11.  $(-7, 6)$
12. midpoint =  $(\frac{7}{2}, \frac{1}{2})$   
distance =  $\sqrt{170} \approx 13$
13.  $(-8, 8)$
14.  $43^\circ$
15. right
16.  $x = 14$