

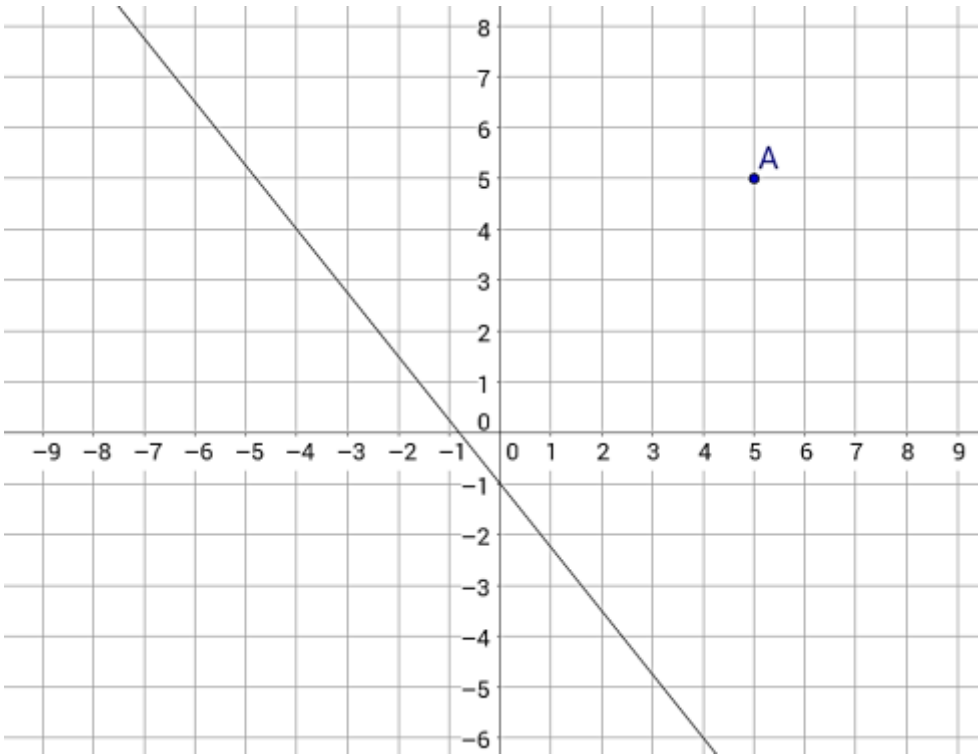
GPE-B5a

Practice Assessment

1. Do the following linear equations graph lines that are parallel, perpendicular, or neither? Use numbers to justify your answer.

$$\begin{cases} 3x + 2y = 4 \\ 4x - 6y = -18 \end{cases}$$

2. Graph a line that is perpendicular to the given line, that passes through the given point. Then complete the table.



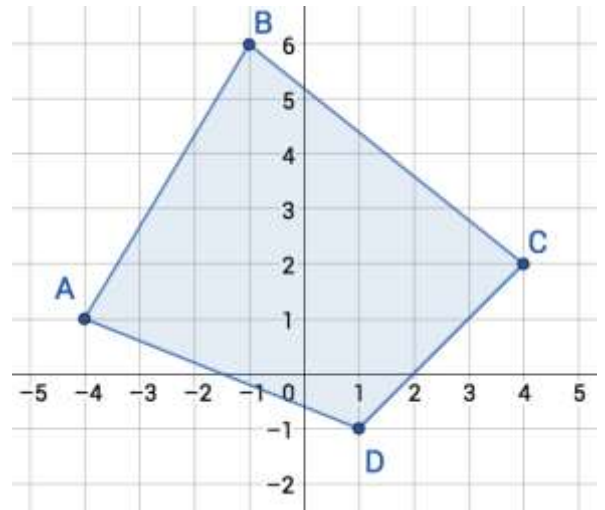
Slope of given line	
Slope of perp. line	

3. Which of the following linear equations graphs a line that passes through point $(1, -3)$ and is parallel to $y = -2x + 6$? Select all that apply.

$y = -2x - 1$
 $y + 3 = -2(x - 1)$
 $y = \frac{1}{2}x - \frac{7}{2}$
 $y = -2x - 3$

GPE-B7a

4. Find the perimeter, to the nearest hundredth, of the quadrilateral ABCD. Show all work.



5. Using the figure above, find the coordinates of the midpoint of \overline{BC} .

6. (no figure provided) Suppose point S has coordinates $(-12, 29)$ and point R has coordinates $(-14, 20)$. Find the exact distance between points S and R. Show all work.

CO-D12a

7. Suppose B is the midpoint of \overline{MZ} , where $BZ = 4x - 2.5$ and $MZ = 5x + 1$. Find the length of \overline{MZ}

8. Use a compass and straight edge to construct ray \overrightarrow{AW} such that \overrightarrow{AW} bisects $\angle A$. Leave circular marks as evidence of construction.

