

Name:

6.7 Do Now Quiz: Distance formula, perpendicular and parallel slopes

1. Write down the slope perpendicular to the given slope.

(a) $m = -\frac{3}{5}$ $m_{\perp} =$ (b) $m = 0.75$ $m_{\perp} =$

2. The line l has the equation $y = -\frac{1}{2}x + 3$.

(a) What is the slope of the line k , given $k \parallel l$?

(b) What is the slope of the line j , given $j \perp l$?

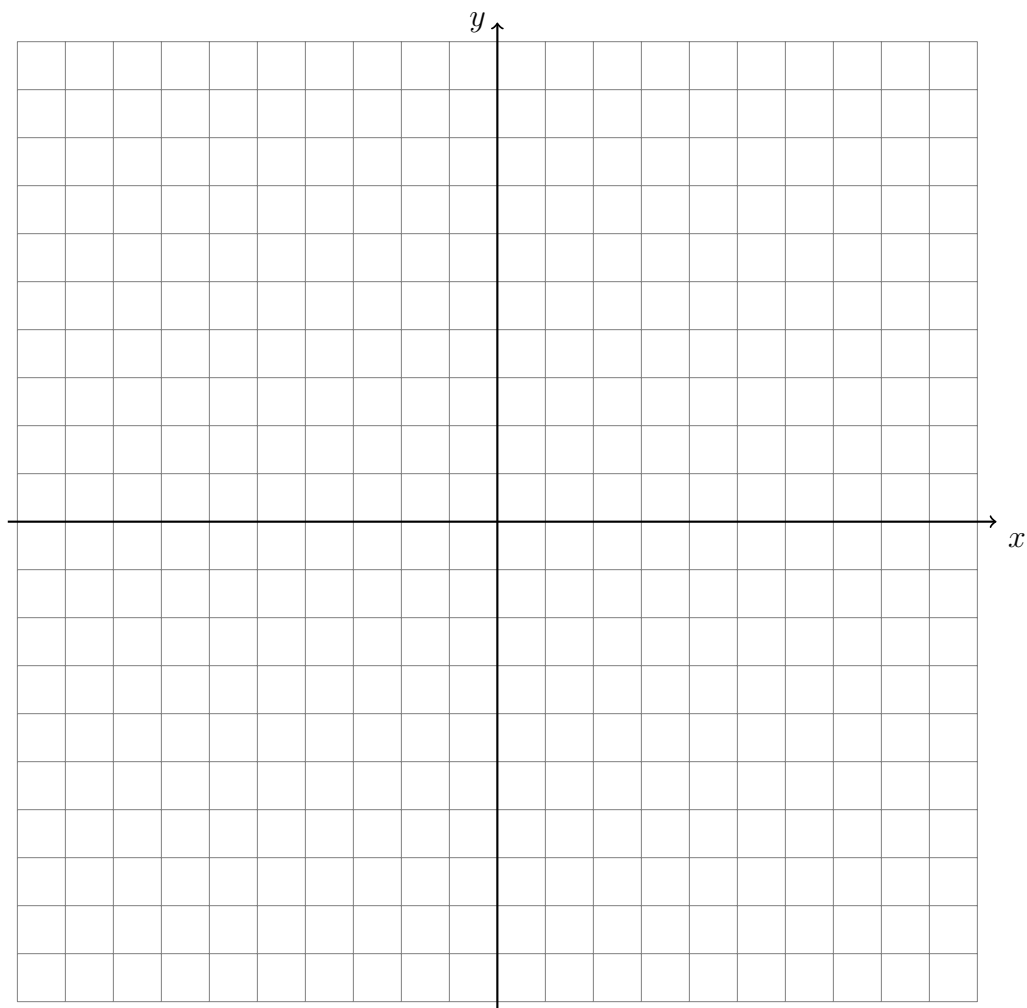
3. What is the slope of a line parallel to the line $x - 2y = 1$?

4. Find XY , $X(-1, -6)$ and $Y(11, -6)$.

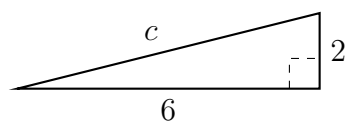
5. (a) $AC =$

(b) $BC =$

(c) $AB =$



6. Find c .

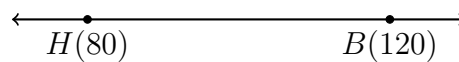


7. What is the length of \overline{CD} if $C(3, 1)$ and $D(7, -2)$?

Use $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

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8. What is the midpoint of \overline{HB} , $H(80)$ and $B(120)$?



9. Graph and label the two equations. Mark their intersection as an ordered pair.

$$y = \frac{3}{2}x - 9$$

$$2x + 3y = 12$$

Are the lines parallel, perpendicular, or neither? Justify your answer.

