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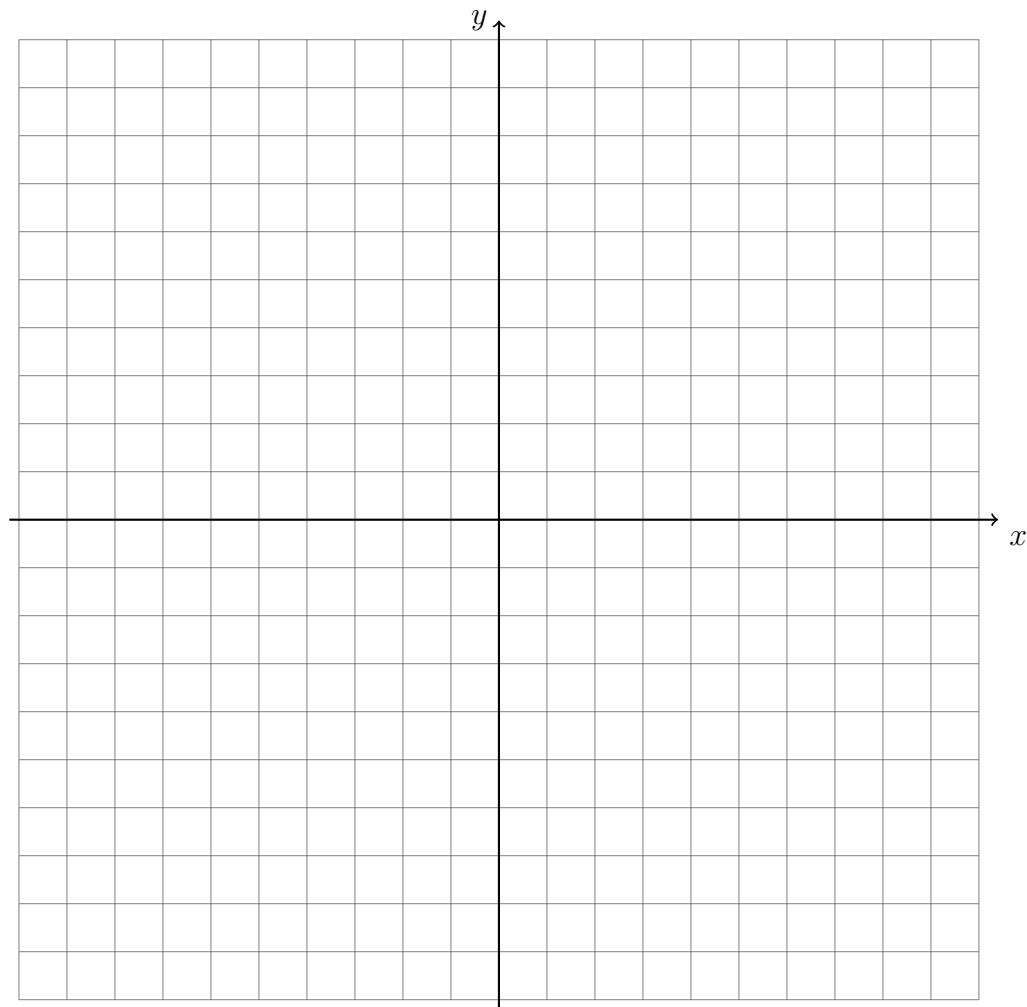
9.8 Pretest Linear & quadratic functions on the coordinate plane

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

$$y = \frac{2}{3}x - 5$$

$$3x + 2y = 16$$

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



2. Find the decimal value of each expression, rounded to the nearest hundredth.

(a) $5\sqrt{7}$

(c) $4 - \sqrt{7}$

(b) $\frac{4^2}{17}$

(d) 7π

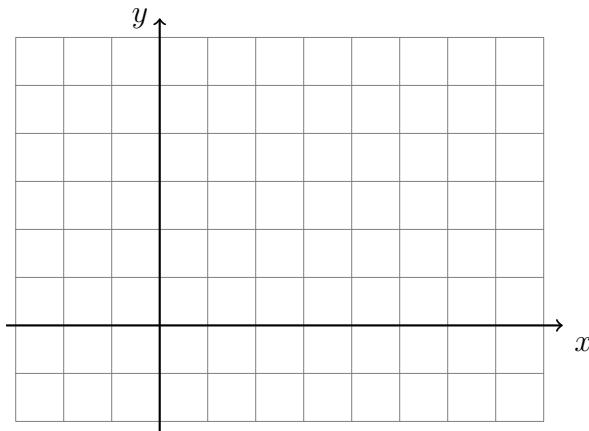
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4. The line l has the equation $y = \frac{1}{4}x - 11$.

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

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

5. On the graph below, draw \overline{AB} , with $A(-2, 3)$ and $B(5, 1)$, labeling the end points. Determine and state the coordinates of the midpoint M of \overline{AB} and mark and label it on the graph.



6. Given $M(2, 6)$ and $N(-3, -6)$, find the length of \overline{MN} .

7. A translation maps $A(3, 11) \rightarrow A'(-2, 3)$. What is the image of $B(0, 7)$ under the same translation?