

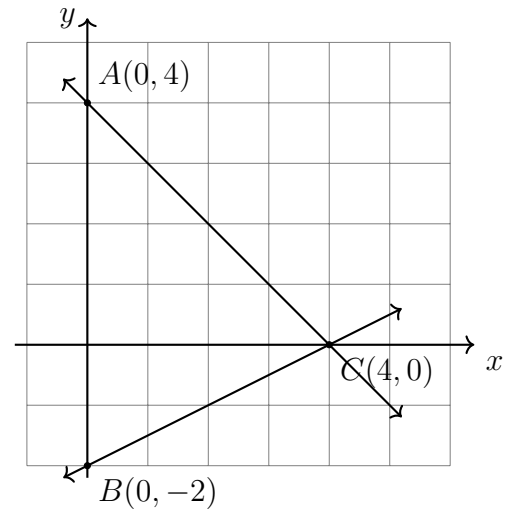
Name:

6.9 Pop Quiz: Slope-intercept form of linear equations

8.F.A.3

1. Two lines are shown in the graph below.

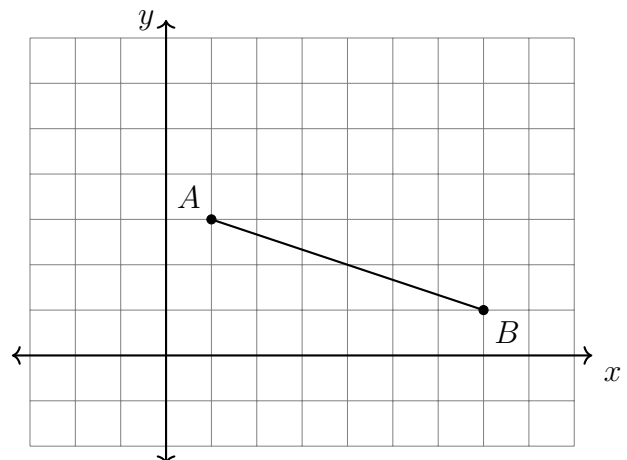
- (a) Write down their equations in slope-intercept form.
- (b) Write down their intersection as an ordered pair.
- (c) Show that the lines are not perpendicular by taking the product of their slopes.



The midpoint formula

2. Write down the midpoint formula.

3. In the diagram below, \overline{AB} has endpoints with coordinates $A(1, 3)$ and $B(7, 1)$. Find the coordinates of the midpoint M of \overline{AB} . Mark and label it on the graph.

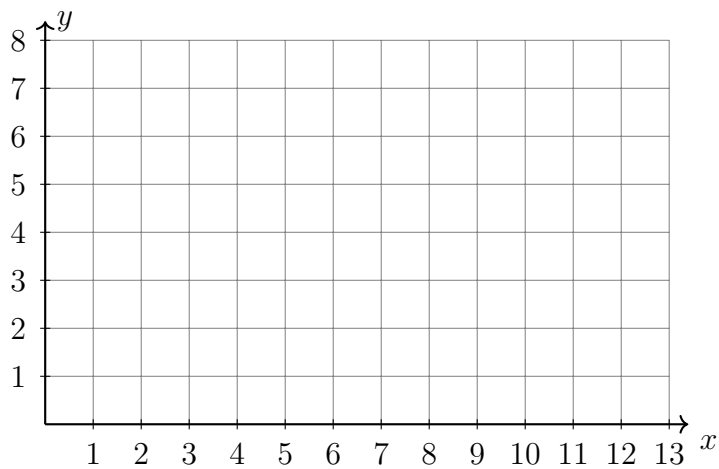


The distance formula

4. Write down the distance formula.

5. What is the length of \overline{PQ} if $P(3, 1)$ and $Q(9, 9)$?

6. Graph and label $\triangle ABC$. Calculate the lengths of its sides. $A(0, 0)$, $B(12, 5)$, $C(12, 0)$.



7. Write the linear equation $x - 3y = 9$ in the form $y = mx + b$.