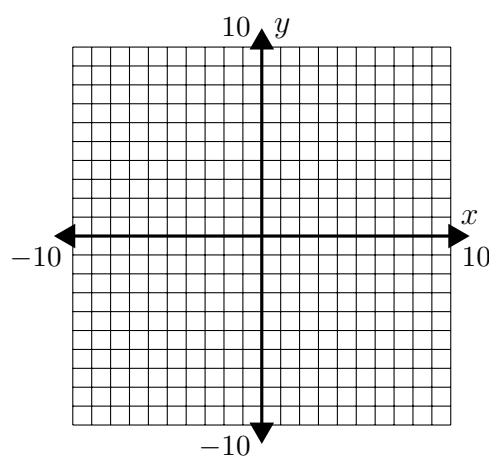
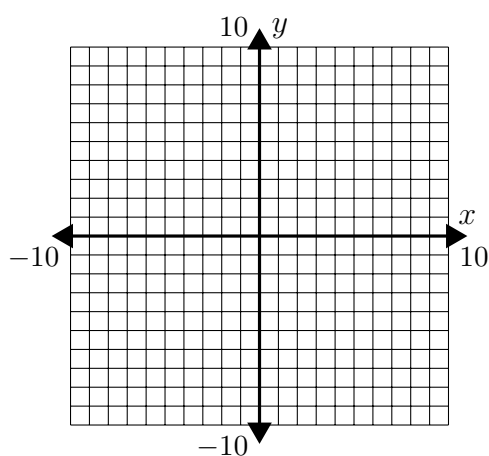


### Graphing Worksheet 46

Use the given information to write the equation of the requested line in point-slope form. Then change the equation to slope-intercept form. Finally, graph both the given line and your new line.

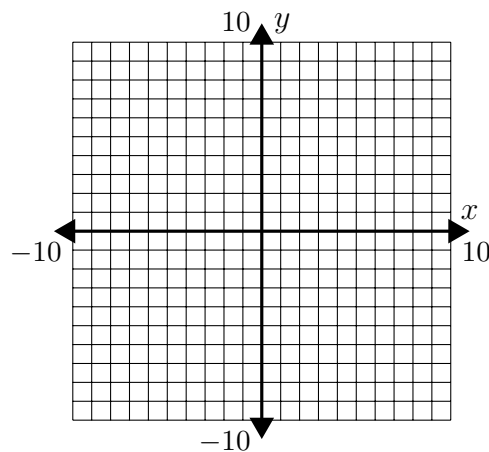
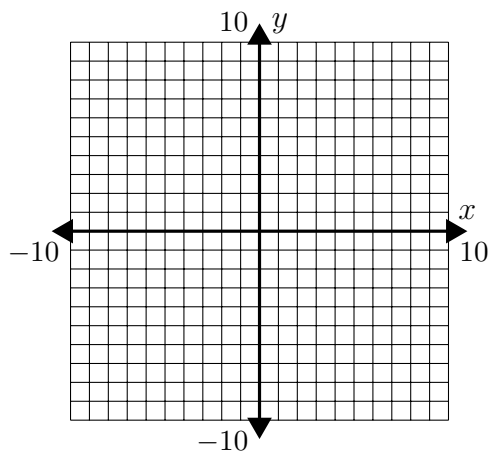
1. Determine the line parallel to  $y = \frac{1}{3}x - 2$ , passing through  $(-6, 1)$

2. Determine the line perpendicular to  $y = \frac{1}{3}x - 2$ , passing through  $(-1, 6)$



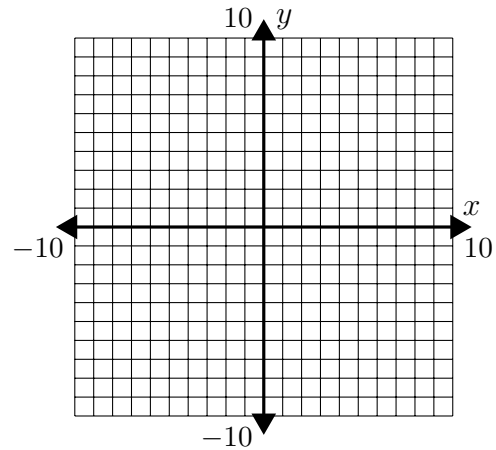
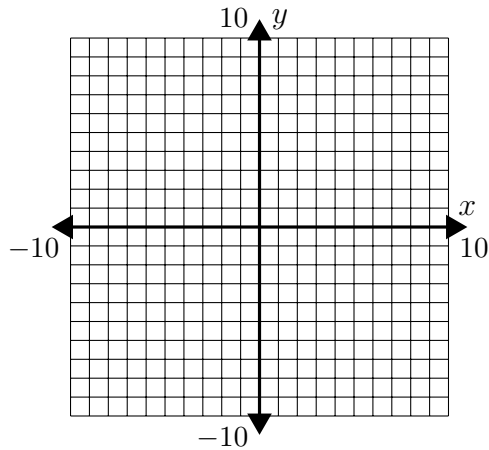
3. Determine the line parallel to  $y = \frac{5}{4}x - 9$ , passing through  $(-8, 0)$

4. Determine the line perpendicular to  $y = \frac{5}{4}x - 9$ , passing through  $(5, -8)$



5. Determine the line parallel to  $3x - 4y = -4$ , passing through  $(-9, -4)$

6. Determine the line perpendicular to  $3x - 4y = -4$ , passing through  $(-8, -4)$



7. Determine the line parallel to  $x - 4y = -32$ , passing through  $(-16, 2)$

8. Determine the line perpendicular to  $x - 4y = -32$ , passing through  $(2, -8)$

