

**Graphing Worksheet 36**

For exercises 1-10, write the equation (in slope-intercept form) of the line whose graph is perpendicular to the graph of the given equation and passes through the given point.

1.  $y = -\frac{2}{5}x - 10$  passing through  $(0, 9)$

2.  $y = -x - 5$  passing through  $(0, -8)$

3.  $y = -\frac{5}{6}x$  passing through  $(2, 7)$

4.  $x = -9$  passing through  $(-2, 3)$

5.  $y = x + 7$  passing through  $(5, -10)$

6.  $-2x - 3y = -6$  passing through  $(-7, -6)$

7.  $6x - y = -4$  passing through  $(5, 9)$

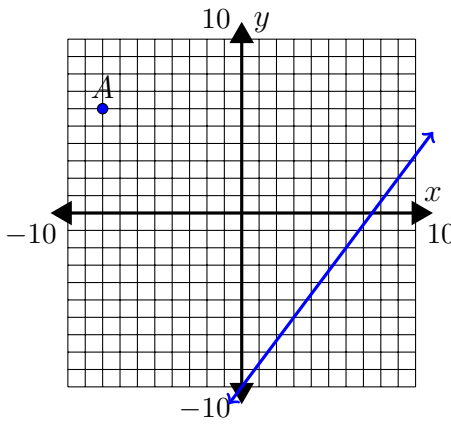
8.  $5x - 8y = -3$  passing through  $(1, 2)$

9.  $-3x - 6y = -5$  passing through  $(8, -7)$

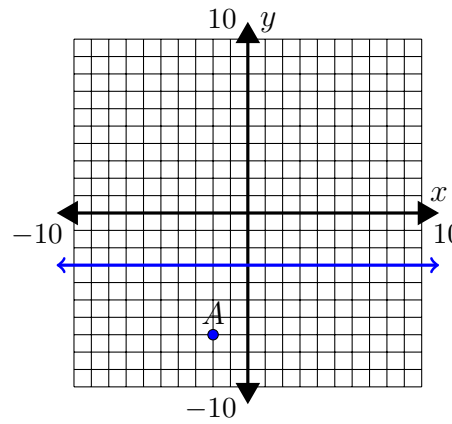
10.  $-4y = 4$  passing through  $(10, 9)$

For exercises 11-16, write the equation of the line (in slope-intercept form) whose graph is perpendicular to the graphed line and passes through point A.

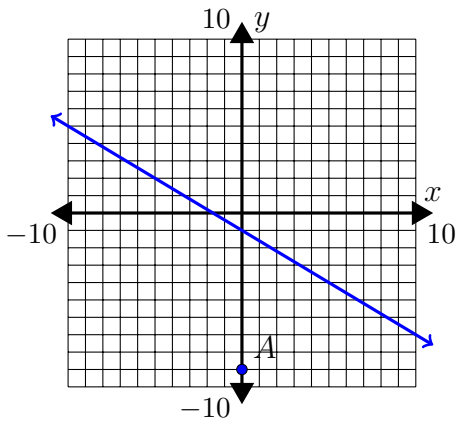
11.



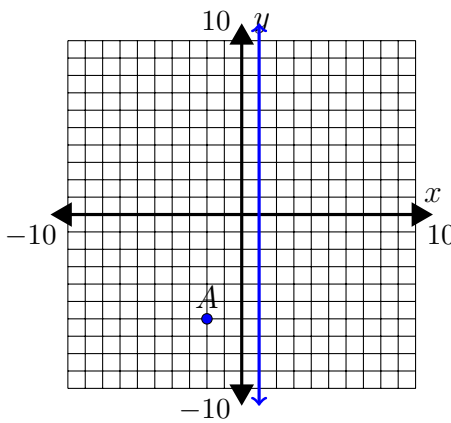
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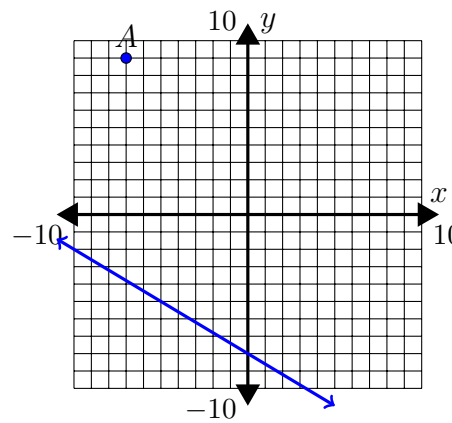
13.



14.



15.



16.

