Equation of the Line - Key

In problems 1-3, find the equation of the line that contains the given point and has the given slope.

1. $y = 2x - 9$	2. $y = 5x + 13$
3. $y = \dfrac{-1}{8}x - \dfrac{5}{2}$	

In problems 4-7, find the equation of the line that contains the given points.

4. $y = x - 2$	5. $y = 4x$
6. $y = \dfrac{3}{5}x - \dfrac{1}{5}$	7. $y = \dfrac{-7}{4}x - \dfrac{21}{2}$

In problems 8-10, find the equation of the line that contains the given point and is parallel to the given line.

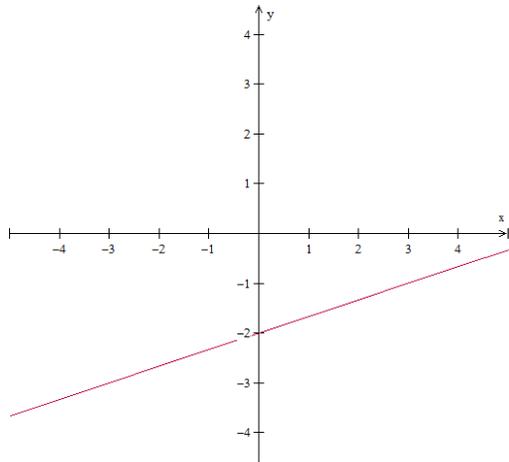|	
8. $y = 2x + 6$	9. $y = 5x - 14$
10. $y = -2x - 1$	

In problems 11-13, find the equation of the line that contains the given point and is perpendicular to the given line.

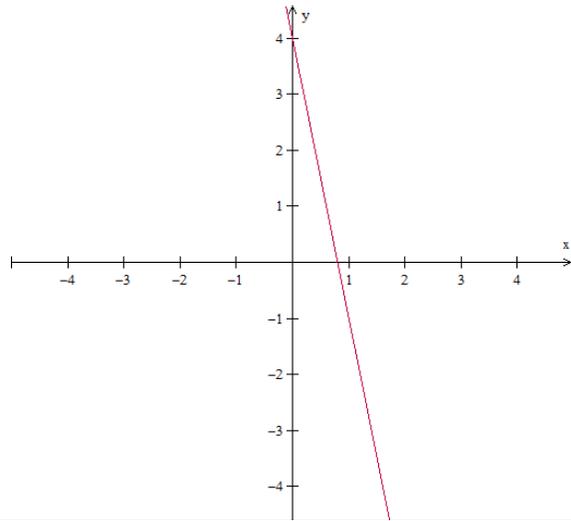|	
11. $y = \dfrac{-1}{7}x - \dfrac{12}{7}$	12. $y = \dfrac{1}{3}x - \dfrac{4}{3}$
13. $y = \dfrac{-3}{8}x + \dfrac{61}{8}$	

Equation of the Line - Key

In problems 14-16, graph the given line

14.

15.

16.