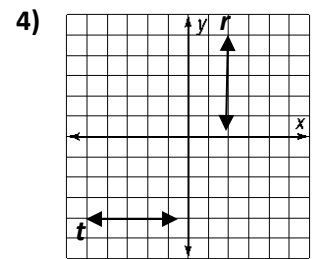
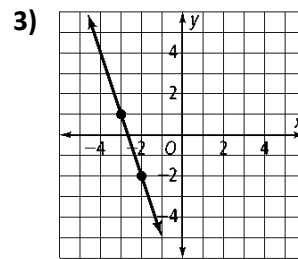


Find the slope of the line passing through the given points or of the given line.

1) $(2, 0), (-6, 8)$

2) $(9, 1), (-9, -3)$



5) $(-3, -1), (-3, 8)$

6) $(8, 3), (4, 3)$

7) $y = \frac{1}{5}x + 8$

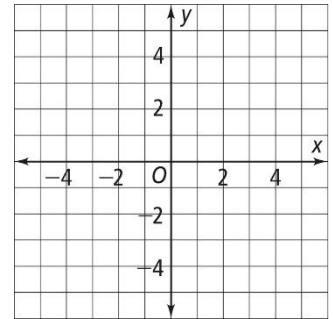
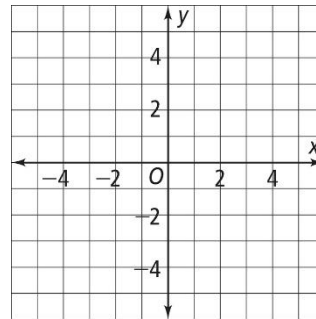
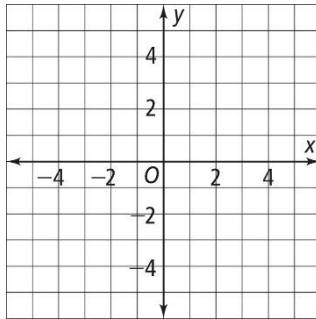
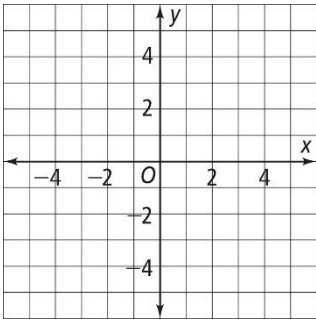
Graph each line.

8) $y = -\frac{2}{3}x - 2$

9) $x - 4y = -12$

10) $y - 1 = \frac{1}{3}(x + 5)$

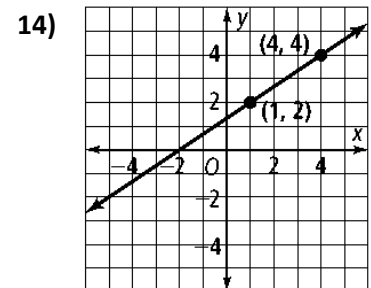
11) $x = 2$ and $y = -3$



Use the given information to write an equation of each line in slope-intercept form.

12) slope -10 , y -intercept -3

13) slope $\frac{3}{4}$, passes through $(-8, 2)$



15) passes through $(-1, 8)$ and $(5, -4)$

16) passes through $(-2, 0)$ and $(3, 10)$

17) parallel to $y = -2x + 6$ and through $(8, 1)$

18) parallel to $y = \frac{2}{3}x + 3$ and through $(0, 6)$

19) parallel to $y = -\frac{3}{4}x + 9$ and through $(8, 1)$

20) perpendicular to $y = \frac{1}{2}x - 7$ and through $(0, -3)$

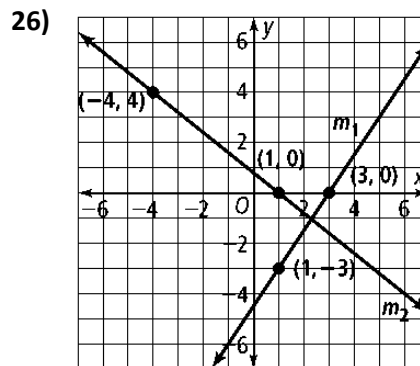
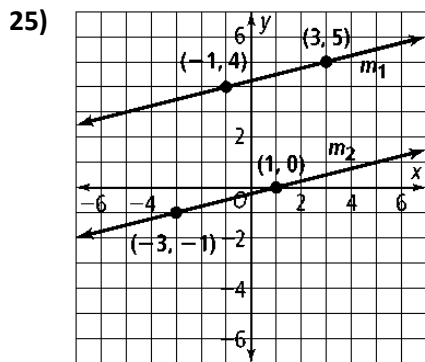
21) perpendicular to $y = 5x + 3$ and through $(2, 2)$

22) perpendicular to $y = -5x + 12$ and through $(-2, 1)$

23) The horizontal line through $(3, -4)$

24) The vertical line through $(3, -4)$

Determine a) whether lines m_1 and m_2 are parallel, perpendicular, or neither. b) Justify your answer.



a) \parallel , \perp or neither: _____

b) Justification: _____

a) \parallel , \perp or neither: _____

b) Justification: _____

27) $m_1: 2y + 6x = 18$

$m_2: 12y - 4x = 24$

a) \parallel , \perp or neither: _____

b) Justification: _____

28) $m_1: 4y - 3x = 20$

$m_2: 2y = \frac{3}{2}x + 4$

a) \parallel , \perp or neither: _____

b) Justification: _____