Review: Writing Linear Equations: Given a slope & a point.

Write an equation of a line in Slope-Intercept Form given the following characteristics of the line.

1) $m = -\frac{1}{2}$; passes through $(3,-3)$

2) slope $= 5$; passes through $(1,2)$

3) $m = \frac{3}{2}$; passes through $(-6,4)$

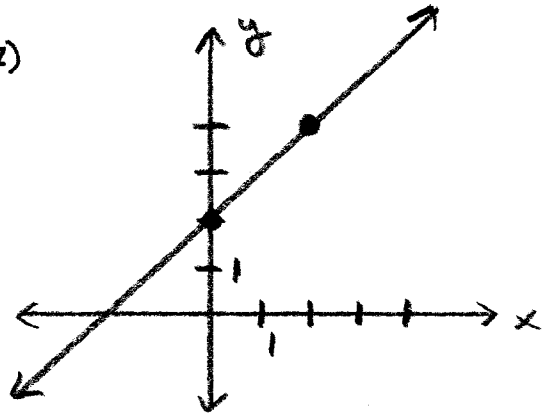
4) slope $= 0$; passes through $(10,-6)$

5) line parallel to $y = 3x+2$; passes through $(2,-3)$

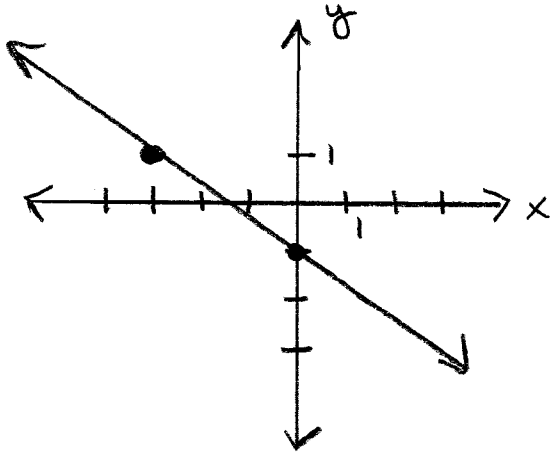
6) line parallel to $x+2y=2$; passes through $(0,3)$

Write the equation of the line shown in the graph. Use Slope-Intercept Form.

7)



8)



Answers:

1) $y = -\frac{1}{2}x - \frac{3}{2}$

2) $y = 5x - 3$

3) $y = \frac{3}{2}x + 13$

4) $y = -6$

5) $y = 3x - 9$

6) $y = -\frac{1}{2}x + 3$

7) $y = x + 2$

8) $y = -\frac{2}{3}x - 1$