2.4 Writing Linear Equations

NAME _____DATE _____ Class _____

A) Write an equation in slope-intercept form for the line described.

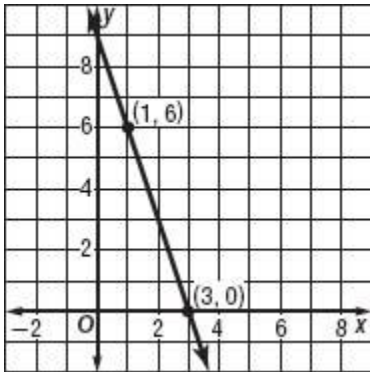1. slope -2, passes through (-4, 6)

2. slope $\dfrac{3}{2}$, *y*-intercept 4
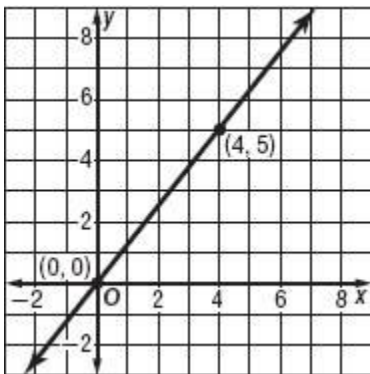
3. slope 1, passes through (2, 5)

4. slope $-\dfrac{13}{5}$, passes through (5, -7)

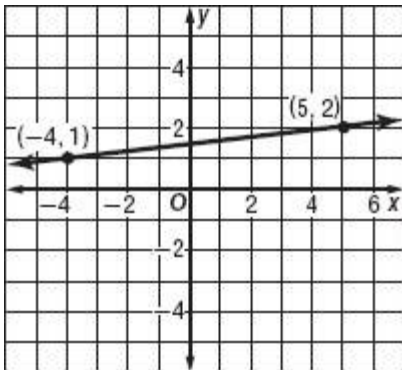**B) Write an equation in slope-intercept form for each graph.**

1.

2.

3.

C) Write an equation in slope-intercept form for the line that satisfies each set of conditions.

1. passes through (-4, 2), parallel to $y = \frac{1}{2}x + 5$

2. passes through (3, 1), perpendicular to $y = -3x + 2$

3. passes through (1, -1), parallel to the line that passes through (4, 1) and (2, -3)

4. passes through (4, 7), perpendicular to the line that passes through (3, 6) and (3, 15)

5. passes through (8, -6), perpendicular to $2x - y = 4$

6. passes through (2, -2), perpendicular to $x + 5y = 6$

7. passes through (6, 1), parallel to the line with x-intercept -3 and y-intercept 5

8. passes through (-2, 1), perpendicular to $y = 4x - 11$