

5-4

Practice

Point-Slope Form

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

1. $(12, -3); m = 5$

2. $(2, -13); m = -4$

3. $(16, -7); m = -\frac{1}{4}$

Graph each equation. USE GRAPH PAPER.

4. $y + 2 = 3(x + 1)$

5. $y - 3 = -5(x + 2)$

6. $y - 4 = -(x - 2)$

Graph the line that passes through the given point and has the given slope m .

7. $(1, -3); m = 5$

8. $(-4, 0); m = -3$

9. $(-5, 5); m = -\frac{1}{2}$

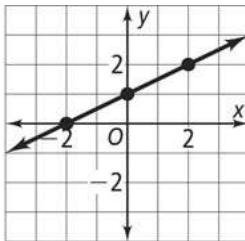
11. **Writing** Describe what you know about the graph of a line represented by the equation $y + 4 = -0.5(x - 1)$.

5-4 Practice (continued)

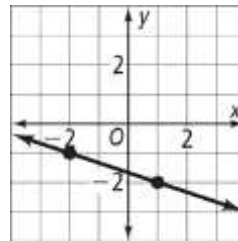
Form K

Write an equation in point-slope form of each line.

12.



13.



Write an equation in point-slope form of the line that passes through the given points. Then write the equation in slope-intercept form.

14. $(5, 1), (0, 2)$

15. $(-12, -3), (4, 13)$