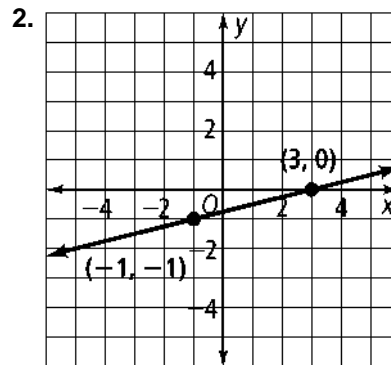
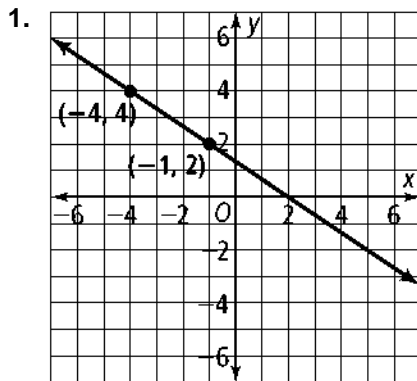


3-7 Practice

Form G

Equations of Lines in the Coordinate Plane

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



3. $(2, 3), (-1, -6)$

4. $(-6, -2), (-3, -6)$

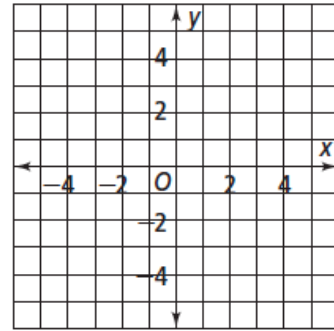
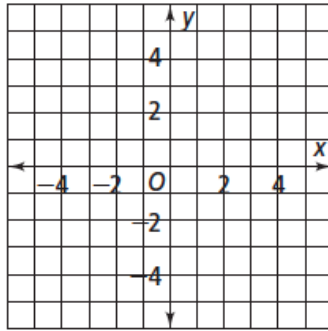
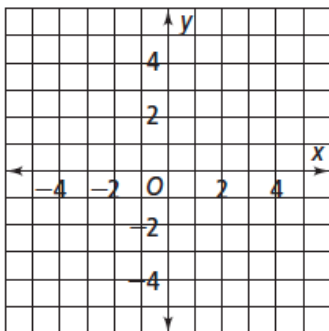
5. $(2, 9), (4, -7)$

Graph each line.

6. $y = 3x - 4$

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

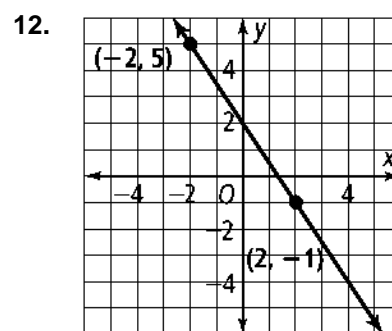
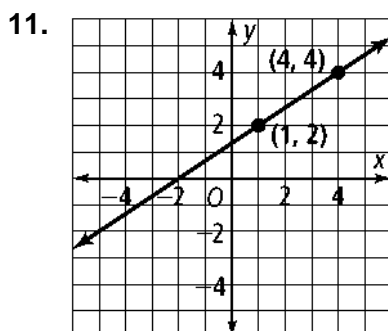
8. $y + 2 = -4(x + 3)$



Use the given information to write an equation for each line.

9. slope 6, y-intercept 4

10. slope $-\frac{1}{3}$, y-intercept -2



13. through $(-2, 0)$ and $(3, 10)$

14. through $(10, 2)$ and $(2, -2)$

3-7

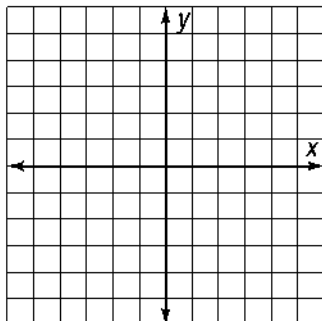
Practice (continued)

Form G

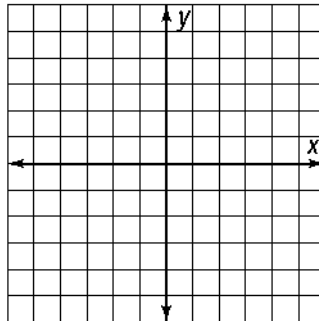
Equations of Lines in the Coordinate Plane

Graph each line.

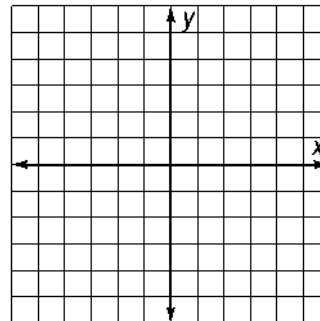
15. $y = -4$



16. $x = 3$



17. $y = 5$



18. **Open-Ended** Write equations for three lines that contain the point (0, 2).

Write each equation in slope-intercept form.

19. $y - 3 = 4(x + 2)$

20. $y - 2 = -2(x - 5)$

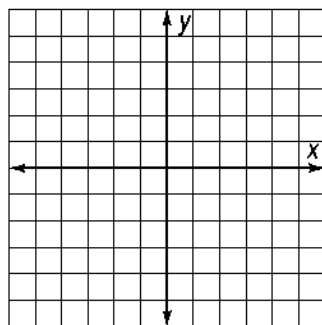
21. $y + 1 = \frac{1}{2}(x + 4)$

22. A wireless phone company charges \$20 for a basic plan each month plus \$0.25/min for each call.

- Write an equation to show how much the company charges, where x is the number of minutes used and y is the total cost.
- Find the total cost for 300 minutes, 350 minutes, and 400 minutes.
- Graph the equation using the values for 300 and 400 minutes.

Graph each pair of lines. Then find their point of intersection.

23. $y = -5, x = -2$



24. $y = 6, x = -1$

