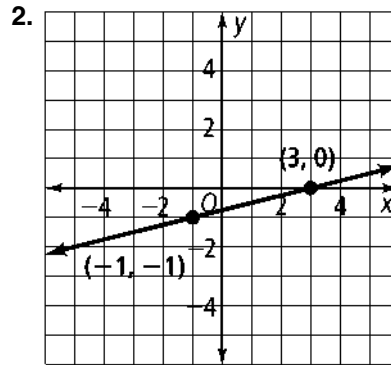
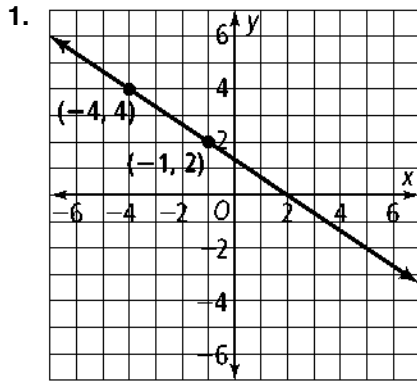


3-7 Practice

Equations of Lines in the Coordinate Plane

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

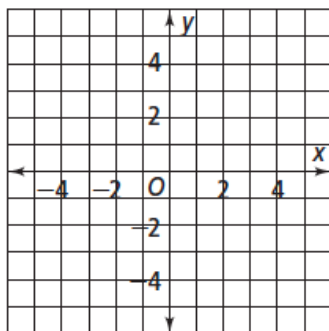


3. $(2, 3), (-1, -6)$

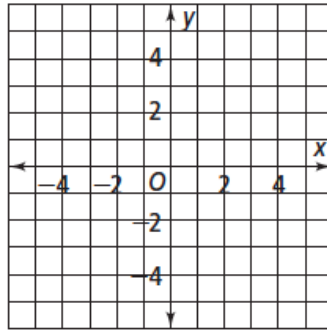
4. $(2, 9), (4, -7)$

Graph each line.

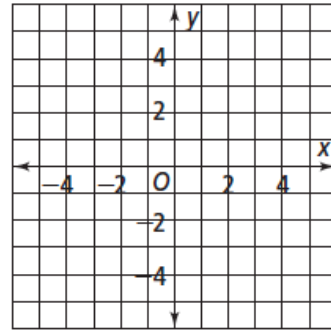
5. $y = 3x - 4$



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



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



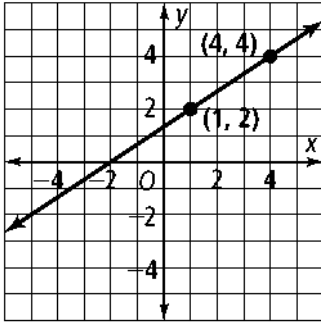
Use the given information to write an equation for each line.

8. slope 6, y-intercept 4

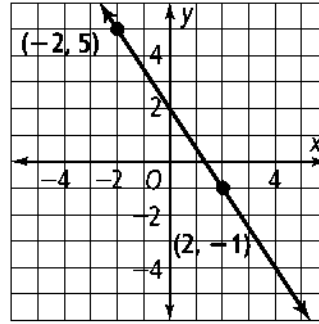
9. slope $-\frac{1}{3}$, y-intercept -2

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

10.



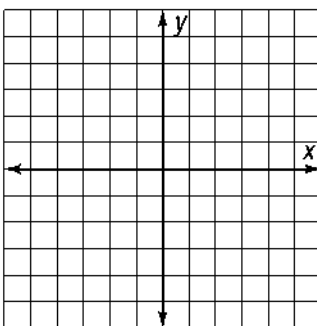
11.



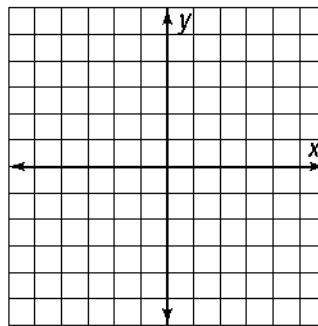
12. through $(-2, 0)$ and $(3, 10)$

Graph each line.

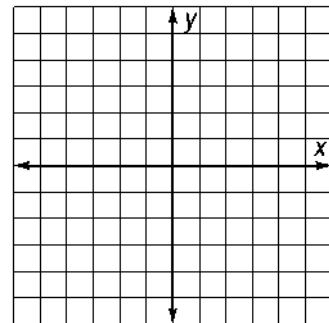
13. $y = -4$



14. $x = 3$



15. $y = 5$



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

Write each equation in slope-intercept form.

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

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

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

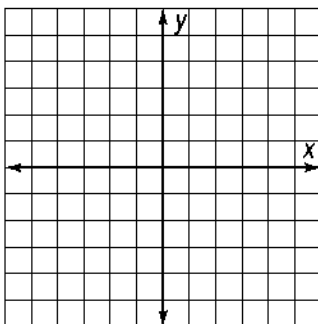
20. A wireless phone company charges \$20 for a basic plan each month plus \$0.25/min for each call.

a. Write an equation to show how much the company charges, where x is the number of minutes used and y is the total cost.

b. Find the total cost for 300 minutes, 350 minutes, and 400 minutes.

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

21. $y = x$ $x = -2$



22. $y = 6$ $y = -x + 4$

