Name _____ Date_____

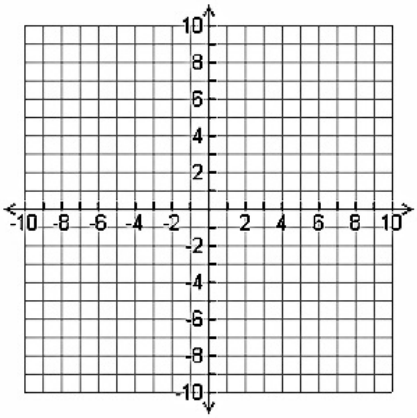
3.4 Practice

In Exercises 1–4, find the *x*- and *y*-intercepts of the graph of the linear equation.

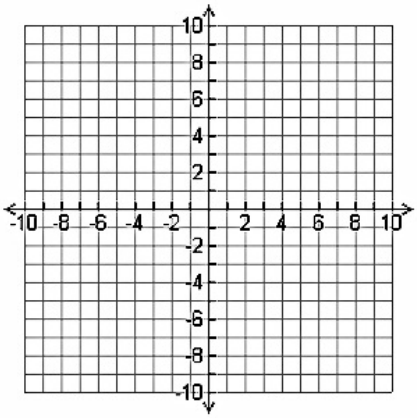
1. $2x - 5y = 10$	2. $-3x + 5y = -30$
3. $-6x - 4y = 24$	4. $x - 5y = 10$

In Exercises 5–6, graph the linear equation.

5. $y = 1$

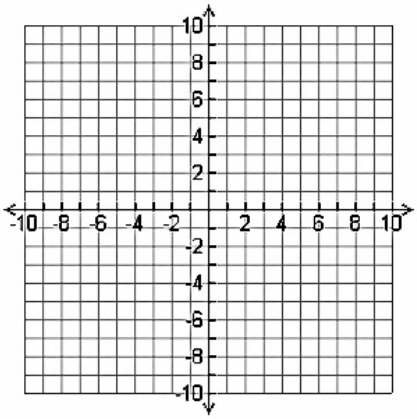


6. $x = -2$

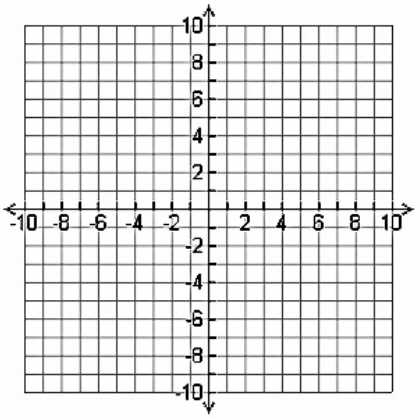


In Exercises 7–12, find the *x*- and *y*-intercepts. Then, use intercepts to graph the linear equation. Label the points corresponding to the intercepts.

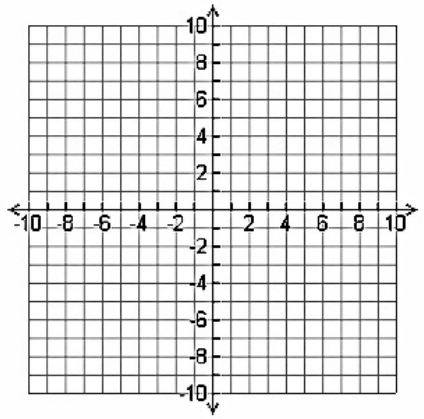
7. $2x + 4y = 8$



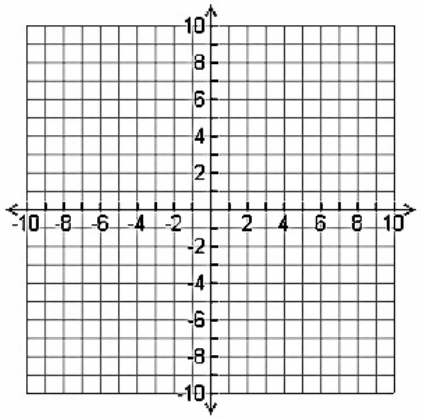
8. $3x + 2y = 12$



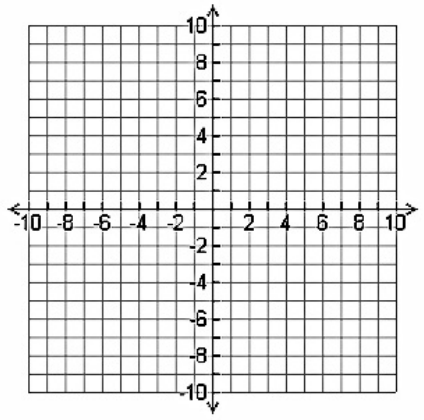
9. $-5x + 2y = 20$



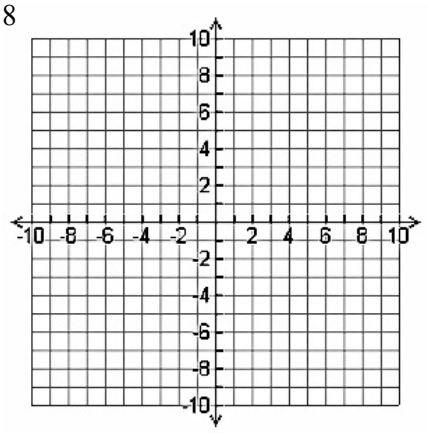
10. $-4x + 4y = 20$



11. $-3x + 4y = 24$



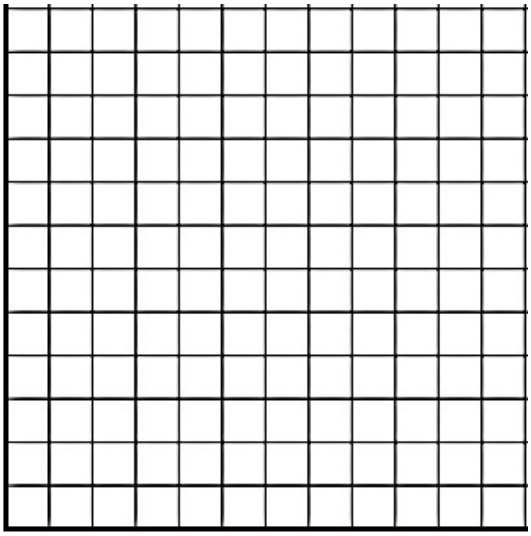
12. $-2x + 6y = 18$



13. A dance team has two competitions on the same day. The coaches decide to split the 96-member team, sending some to each competition. Competition A requires four-member dance teams per event, and Competition B requires six-member dance teams per event. The equation $4x + 6y = 96$ models this situation, where

x is the number of four-member teams and y is the number of six-member teams.

a. Graph the equation. Interpret the intercepts.



b. Find four possible solutions in the context of the problem.