

5-5**Practice**

Form K

Standard Form

Find the x - and y -intercepts of the graph of each equation.

1. $x + y = -3$

2. $2x - 4y = -8$

3. $x + 5y = -10$

4. $-3x + 2y = 12$

Draw a line with the given intercepts.

5. x -intercept: 2

y -intercept: -3

6. x -intercept: -4

y -intercept: -2

Graph each equation using x - and y -intercepts.

7. $3x + y = -2$

8. $-2x + y = 1$

9. $x - y = 4$

10. $-6x + y = -4$

11. $2x - 3y = -6$

12. $6x + 8y = 24$

For each equation, tell whether its graph is a *horizontal* or a *vertical* line.

13. $x = -1$

14. $y = 5$

Graph each equation.

15. $x = -5$

16. $y = 6$

17. **Writing** Explain how $y - 2 = 2(x + 6)$ can be rewritten into standard form. Then show your work in transforming the equation to standard form.

Write each equation in standard form using integers.

18. $y = x + 6$

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

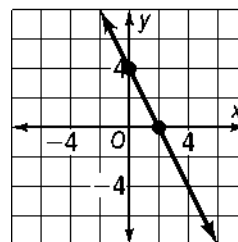
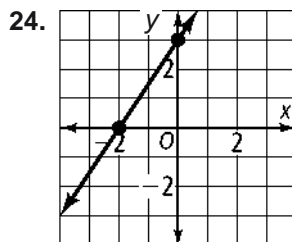
20. $y - 1 = -\frac{1}{2}(x - 4)$

21. $y = -\frac{2}{3}x + 6$

22. You work two jobs. At the first job, you earn \$10 per hour. At the second job, you earn \$12 per hour. You earned \$440 last week. Write and graph an equation that represents this situation. What are three combinations of hours you could have worked at each job?

23. Mike was the kicker for the football team. He scored 56 points during the season kicking field goals (3 points) and extra points (1 point). Write and graph an equation that represents this situation. What are three combinations of field goals x and extra points y he could have made?

For each graph, find the x - and y -intercepts. Then write an equation in standard form using integers.



25.

Find the x - and y -intercepts of the line that passes through the given points.

26. $(2, -2), (6, -4)$

27. $(-1, -3), (4, 2)$