

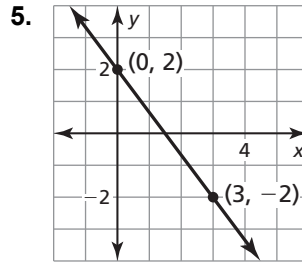
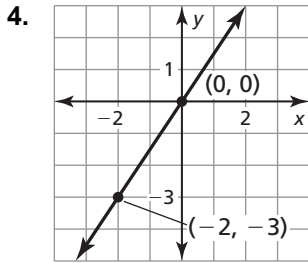
4.1

Practice B

In Exercises 1–3, write an equation of the line with the given slope and y-intercept.

- | | | |
|-------------------|----------------------------|--------------------------|
| 1. slope: 3 | 2. slope: 0 | 3. slope: $-\frac{2}{5}$ |
| y-intercept: -9 | y-intercept: $\frac{1}{3}$ | y-intercept: 7 |

In Exercises 4 and 5, write an equation of the line in slope-intercept form.



In Exercises 6–8, write an equation of the line that passes through the given points.

- | | | |
|----------------------|-------------------------|------------------------|
| 6. $(4, 0), (0, -7)$ | 7. $(0, -3), (-2.5, 2)$ | 8. $(0, 4), (-6, 1.5)$ |
|----------------------|-------------------------|------------------------|

In Exercises 9–11, write a linear function f with the given values.

- | | | |
|---------------------------|----------------------------|----------------------------|
| 9. $f(6) = -2, f(0) = -5$ | 10. $f(0) = -1, f(2) = -1$ | 11. $f(-4) = 3, f(0) = -2$ |
|---------------------------|----------------------------|----------------------------|

12. A T-shirt design company charges your team an initial fee of \$25 to create the team's design. Each T-shirt printed with your design costs an additional \$8.
- Write a linear model that represents the total cost of purchasing your team's T-shirts with your design as a function of the number of T-shirts.
 - Your team has 35 members. If a T-shirt is purchased for every member, what would be the cost?
13. Line ℓ is a reflection in the x -axis of line k . Write an equation that represents line k .

