

4.1 Practice B**1–3: Write an equation of the line with the given slope and y-intercept.**

1. slope: 3

y-intercept: -9

2. slope: 0

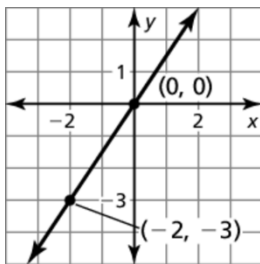
y-intercept: $\frac{1}{3}$

3. slope: $-\frac{2}{5}$

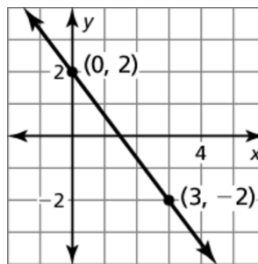
y-intercept: 7

4 & 5: Write an equation of the line in slope-intercept form.

4.



5.

**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. $(0, 4), (-6, 1.5)$

9–11: Write a linear function f with the given values.

9. $f(6) = -2, f(0) = -5$

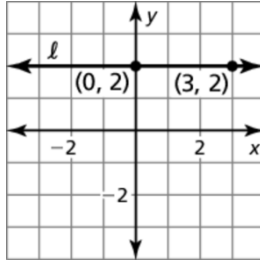
10. $f(0) = -1, f(2) = -1$

11. $f(-4) = 3, f(0) = -2$

12 & 13: Short Answer. Be sure to answer all questions, use appropriate units, and show all work for full credit.

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 .



14. Find the slope of the line passing through $(6, -2)$ and $(12, 1)$.

15. Find the slope of the line passing through $(-5, 19)$ and $(5, 13)$.