

4.5 Practice A

Write the linear equation in slope-intercept form.

1. $4x + y = 10$

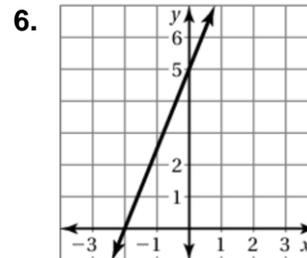
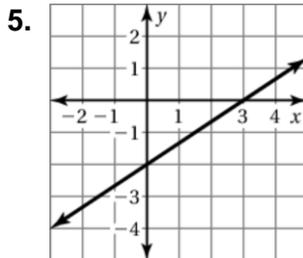
2. $3x - y = 7$

Graph the linear equation. Use a graphing calculator to check your graph.

3. $2x - 3y = 6$

4. $5x - 3y = 15$

Use the graph to find the x - and y -intercepts.



Graph the linear equation using intercepts. Use a graphing calculator to check your graph.

7. $4x + y = 8$

8. $3x - 2y = 12$

9. The total amount of fiber (in grams) in a package containing x apples and y oranges is given by the equation $5x + 10y = 110$.

- Find and interpret the y -intercept.
- Find and interpret the x -intercept.
- How many grams of fiber does an orange contain?
- How many grams of fiber does an apple contain?
- Is it possible for the package to contain 15 apples? Explain.

10. You have two jobs. You earn \$8 for each hour x that you work as a restaurant host and \$6 for each hour y that you work as a hair washer. Your earnings for the pay period are \$144.

- Write an equation in standard form that models your earnings.
- Find the x - and y -intercepts.
- Graph the equation.
- You worked 10 hours as a hair washer. How many hours did you work as a host?

4.5 Practice B

Write the linear equation in slope-intercept form.

1. $\frac{2}{3}x + y = 4$

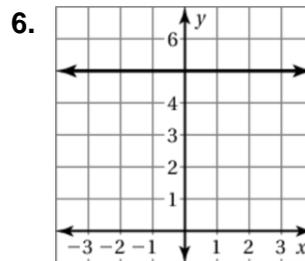
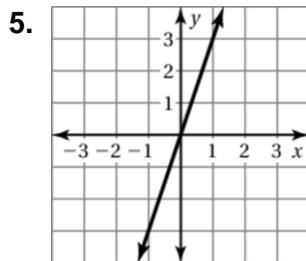
2. $4x - 2y = 10$

Graph the linear equation. Use a graphing calculator to check your graph.

3. $4.5x - 0.5y = 3$

4. $\frac{2}{3}x + \frac{1}{3}y = 2$

Use the graph to find the x - and y -intercepts.



Graph the linear equation using intercepts. Use a graphing calculator to check your graph.

7. $\frac{1}{5}x + \frac{1}{10}y = \frac{2}{5}$

8. $2.5x - 1.25y = 5$

9. Your family is on a ski vacation. Lift tickets for the family cost \$80 per day. Snowboard rentals cost \$40 per day. You purchase lift tickets for x days and snowboard rentals for y days and spend \$480.

- Write an equation in standard form that represents the situation.
- Find the x - and y -intercepts.
- Graph the equation.
- You rent snowboards for 2 days. How many days did you purchase lift tickets?

10. An electrician charges \$80 plus \$32 per hour.

- Write an equation that represents the total fee y (in dollars) charged by the electrician for a job lasting x hours.
- Find the x - and y -intercepts.
- Graph the equation.
- Is the value of the x -intercept applicable to the electrician? Explain.