

**QUIZ #7 LINEAR EQUATIONS****ALGEBRA 2****VERSION A**

*Find the x- and y-intercepts of each line.*

1.  $x - 3y = 9$

2.  $y = 7x + 5$

3.  $y = 6x$

4.  $-4x + y = 10$

*Write the equation of each line in slope-intercept form.*

5.  $2x - y = 9$

6.  $4x = 2 + y$

7.  $5y = -3x - 10$

8.  $4x + 6y = 12$

9. a. A group of friends is going to the movies. Each ticket costs \$7.00. Write an equation to model the total cost of the group's tickets.

b. Graph the equation. Explain what the x- and y-intercepts represent.

c. **Writing** Could the domain include fractions? Explain.

10. Which line is perpendicular to  $3x + 2y = 6$ ?

a.  $4x - 6y = 3$

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

c.  $2x + 3y = 12$

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

**QUIZ #7 LINEAR EQUATIONS****ALGEBRA 2****VERSION B**

*Find the x- and y-intercepts of each line.*

1.  $y = 7x + 5$

2.  $y = 6x$

3.  $-4x + y = 10$

4.  $x - 3y = 9$

*Write the equation of each line in slope-intercept form.*

5.  $5y = -3x - 10$

6.  $2x - y = 9$

7.  $4x + 6y = 12$

8.  $4x = 2 + y$

9. a. A group of friends is going to the movies. Each ticket costs \$5.00. Write an equation to model the total cost of the group's tickets.

b. Graph the equation. Explain what the x- and y-intercepts represent.

c. **Writing** Could the domain include fractions? Explain.

10. Which line is perpendicular to  $3x + 2y = 6$ ?

a.  $2x + 3y = 12$

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

c.  $4x - 6y = 3$

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