

**8.3****Challenge Practice**

For use with pages 398–402

**Find the intercepts of the equation's graph. Then graph the equation.**

1.  $1.2y - 2.4x = 4.8$

2.  $\frac{4}{3}x + \frac{1}{2}y = \frac{5}{6}$

3.  $\frac{3}{8}x - \frac{1}{5}y = \frac{3}{4}$

4.  $3.2 - 0.8y = 0.4x$

- Draw the graph of an equation whose intercepts are the same number. Identify the intercepts.
- Draw the graph of an equation whose intercepts are opposite numbers. Identify the intercepts.
- Write the equation of a line whose graph has an  $x$ -intercept of 1 and a positive  $y$ -intercept.
- Write the equation of a line whose graph has a  $y$ -intercept of  $-2$  and a positive  $x$ -intercept.
- A rectangle has a perimeter of 12 centimeters. Let  $x$  represent the rectangle's width and let  $y$  represent the rectangle's length. Graph the equation that describes the possible values for  $x$  and  $y$ . What are the dimensions of the rectangle with the greatest whole number length? What are the dimensions of the rectangle with the greatest whole number width?