

Challenge Practice

For use with pages 412–417

Identify the slope and y -intercept of the line with the given equation. Use the slope and y -intercept to graph the equation.

1. $8x - 6y = -5$

2. $0.2y - 1.4x + 0.6 = 0$

3. $\frac{2}{3}x - \frac{1}{6}y - \frac{1}{2} = 0$

4. Graph the equation $3x - 2y = -8$ using its slope and y -intercept. Then, on the same coordinate plane, graph the line whose slope is three times the slope of $3x - 2y = -8$ and that has the same y -intercept.

For the line with the given equation, find the slope of a parallel line and the slope of a perpendicular line.

5. $9x - 4y = -6$

6. $0.6x - 0.3y - 1.2 = 0$

7. $\frac{3}{5}y - \frac{2}{3}x + \frac{7}{15} = 0$

8. For the line that has an x -intercept of -4 and a y -intercept of -3 , find the slope of a parallel line and the slope of a perpendicular line.
9. For the line that passes through $(-4, 7)$ and $(3, -5)$, find the slope of a parallel line and the slope of a perpendicular line.