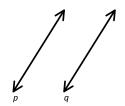
## Parallel and Perpendicular Lines

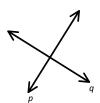
## Parallel Lines



$$p \parallel q$$

$$m_p = m_q$$

## Perpendicular Lines



$$p \perp q$$

$$m_p = \frac{3}{2}$$

$$m_p = -2$$

$$m_n = 1$$

$$m_p = 0$$

1. Find the slope of a line that is parallel and perpendicular to the given line.

a) 
$$2x + 5y = 10$$

b) 
$$-\frac{1}{6}x - 3y = 7$$

2. Write the equation of the line in slope-intercept form that passes through the point (2,3) and is parallel to 3y = -6x + 12.

3. Write the equation of the line in slope-intercept form that passes through the point (-2,4) and is perpendicular to 5x + 2y = -10.