



Portfolio

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Write an equation of the line that passes through the point  $(1, 6)$  and is parallel to the line whose equation is  $y = 3x - 5$ .
2. Write an equation of the line that passes through the origin and is parallel to the line whose equation is  $y = 3x - 7$ .
3. Write an equation of a line that is perpendicular to the line  $y = \frac{2}{3}x + 5$  and that passes through the point  $(0, 4)$ .
4. Write an equation that represents the line that passes through the points  $(5, 4)$  and  $(-5, 0)$ .
5. Find an equation of the line passing through the point  $(6, 5)$  and perpendicular to the line whose equation is  $2y + 3x = 6$ .
6. Find an equation of the line passing through the point  $(5, 4)$  and parallel to the line whose equation is  $2x + y = 3$ .
7. Write an equation of the line that passes through the point  $(6, -5)$  and is parallel to the line whose equation is  $2x - 3y = 11$ .
8. The lines represented by the equations  $y + \frac{1}{2}x = 4$  and  $3x + 6y = 12$  are
  - A. the same line
  - B. parallel
  - C. perpendicular
  - D. neither parallel nor perpendicular