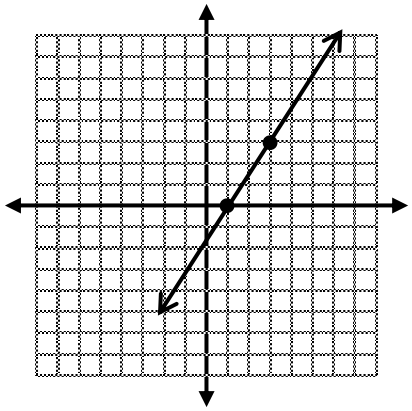
#1-4. Use the given information to find the equation of each line both in point-slope form and slope-intercept form.

1. 

2. (2, 3) (4, 8)

3. (6, 2) $m = \frac{2}{3}$

4. (– 2, 1) (4, 13)

5. Find the equation of a line passing through the point (3, 0) and parallel to the line with equation $y = 3x + 1$.

6. Find the equation of a line passing through the point (-1, 5) and perpendicular to the line with equation $y = -\frac{2}{3}x + 7$.

7. Find the equation of the line that passes through the midpoint of the line segment connecting (–2, 3) and (6, 9) and is also perpendicular to the line connecting those two points.