Do Now: Point-slope and linear equations

1. Write down the slope perpendicular to the given slope.

   (a) $m = -\frac{3}{5}$ $m_\perp =$

   (b) $m = -2$ $m_\perp =$

   (c) $m = 0.75$ $m_\perp =$

   (d) $m = \frac{1}{2}$ $m_\perp =$

2. Write down the center and radius of each circle.

   (a) $(x+4)^2 + (y-3)^2 = 81$

   (b) $x^2 + (y+1)^2 = 20$

   In the following problems, use the point-slope formula: $y - y_1 = m(x - x_1)$

3. What is the equation of a line through $(-1, -4)$ parallel to the line $y = \frac{3}{2}x + 1$?

4. *Spicy* What is an equation of the perpendicular bisector of $\overline{AB}$ with $A(-2, 5)$ and $B(4, -1)$?