Sketch the graph of the following circle.

\[ x^2 - 4x + y^2 + 6y = -4 \]
\[ \left(\frac{x}{2}\right)^2 - 2 \cdot \frac{x}{2} + \frac{3}{2} + \left(\frac{y}{3}\right)^2 + 3 \cdot \frac{y}{3} = 9 \]
\[ \Rightarrow (x^2 - 4x + 4) + (y^2 + 6y + 9) = -4 + 4 + 9 \]
\[ \Rightarrow (x - 2)^2 + (y + 3)^2 = 9 \]

Center: \((2, -3)\)
Radius: 3

Find the equation of the line parallel to \(2x - 5y = 10\) and passing through the point \((1, 1)\). Sketch this line.

\[ 2x - 5y = 10 \Rightarrow -5y = -2x + 10 \]
\[ \Rightarrow y = \frac{2}{5}x - 2 \]

Slope of old line = slope of new parallel line.

\[ y - 1 = \frac{2}{5}(x - 1) \Rightarrow y - 1 = \frac{2}{5}x - \frac{2}{5} \]
\[ \Rightarrow y = \frac{2}{5}x + \frac{3}{5} \]