

Math 3 HW - Wed 12/2

Each equation below represents a circle. Use completing the square to put the equation in center- r -radius form, then identify center $\&$ radius.

$$\textcircled{1} \quad x^2 + 8x + y^2 - 4y = 5$$

$$\textcircled{2} \quad x^2 - 10x + y^2 + 6y - 2 = 0$$

$$\textcircled{3} \quad x^2 + 14x + y^2 + 6y = -22$$

$$\textcircled{4} \quad x^2 + y^2 + 12x = 13$$