

$$\textcircled{\#13} \quad x^2 + y^2 + 2x - 8y - 9 = 0$$

$$x^2 + 2x + \boxed{1} + y^2 - 8y + \boxed{16} = 9 + 1 + 16$$

$$(x+1)^2 + (y-4)^2 = 26$$

$$\text{So RADIUS} = \sqrt{26}$$

$$\text{DIAMETER} = 2\sqrt{26}$$

$$\textcircled{\#14} \quad x^2 + y^2 - 4x + 12y + 15 = 0$$

$$x^2 - 4x + \boxed{4} + y^2 + 12y + \boxed{36} = -15 + 4 + 36$$

$$(x-2)^2 + (y+6)^2 = 25$$

$$\text{So CENTER IS } (2, -6)$$

$$\text{RADIUS IS } 5$$