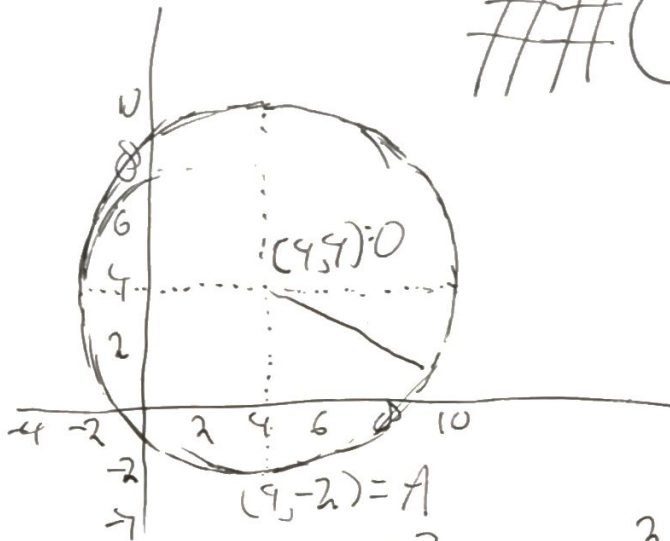


Circle Form



$$r^2 = (A - O)^2 = (4 - 9)^2 + (-2 - 4)^2 = 36$$

$$A = (9, -2)$$

$$O = (4, 4)$$

$$(x - O_x)^2 + (y - O_y)^2 = r^2$$

$$(x - 4)^2 + (y - 4)^2 = 36$$

$$\begin{aligned} (a - b)^2 &= (a - b) \cdot (a - b) \\ &= a^2 - ab - ba + b^2 \\ &= a^2 - 2ab + b^2 \\ a^2 &= 2ab - b^2 \quad || \\ (a^2 - 2ab) &= -b^2 \end{aligned}$$

$$(x^2 - 8x) - 16 + (y^2 - 8y) - 16 = 36$$

$$(x^2 - 8x) + (y^2 - 8y) = 68$$

$$x^2 - 8x = 68 - y^2 + 8y$$