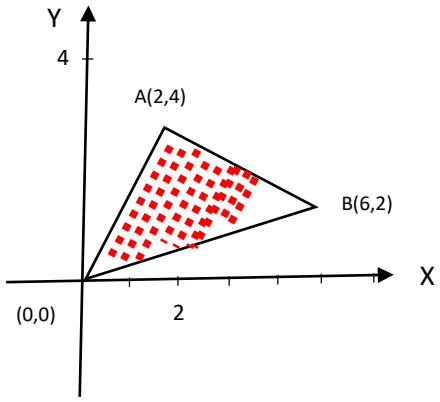
Circle equation



OB $\Rightarrow$ $X_{Mid} = \frac{0+6}{2} = 3$ $\quad$ $Y_{Mid} = \frac{0+2}{2} = 1$

The Mid Point is (3,1)

$a_{OB} = \frac{2-0}{6-0} = \frac{1}{3}$, $\quad$ $a_{+} = -3$

(3,1) $\quad$ a = - 3 $\Rightarrow$ y = -3x +10

AO $\Rightarrow$ $a_{AO} = \frac{4}{2} = 2$ $\quad$, $\quad$ $a_{+} = -\frac{1}{2}$

The mid point is F(1,2)

F(1,2) $\quad -\frac{1}{2}$ $\quad$ $y - 2 = -\frac{1}{2}(x - 1)$

$y = -\frac{1}{2}x + 2\frac{1}{2}$

$y = -3x + 10$

$0 = 2\frac{1}{2} - 7\frac{1}{2}$ $\quad$ To Find the center

x = 3 , $\quad$ y = 1 the center is (3,1)

$R^2 = (6 - 3)^2 + (2 - 1)^2 = 10$

$(x - 3)^2 + (y - 1)^2 = 10$