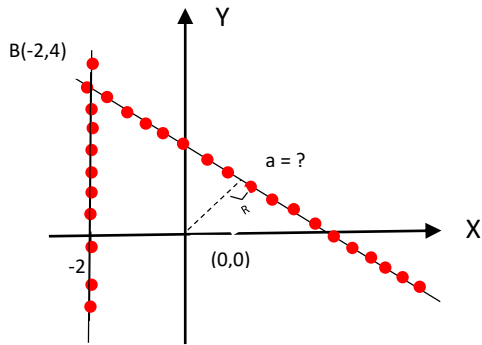


## Target to a circle 2



The equation of the circle is given

$$x^2 + y^2 = 4$$

$$B(-2,4) \quad a$$

$$y - 4 = a \cdot (x+2)$$

$$ax - y + (2a+4) = 0$$

$$\frac{ax - y + (2a+4)}{\sqrt{a^2+1}} = 0$$

$$\frac{0-0+(2a+4)}{\sqrt{a^2+1}} = 2 \quad \text{center}(0,0)$$

$$R = 2$$

$$\frac{2a+4}{\sqrt{a^2+1}} = 2$$

$$\frac{a+2}{\sqrt{a^2+1}} = 1 \Rightarrow (a+2)^2 = a^2+1$$

$$a^2 + 4a + 4 = a^2 + 1$$

$$4a = -3 \Rightarrow a = \frac{-3}{4}$$

The other target is to be

$$x = K, \text{ through } (-2,4)$$

$$x = -2$$

the lines are:

$$1. \quad 3x + 4y - 10 = 0$$

$$2. \quad X = -2$$

target to  $x^2+y^2 = 4$