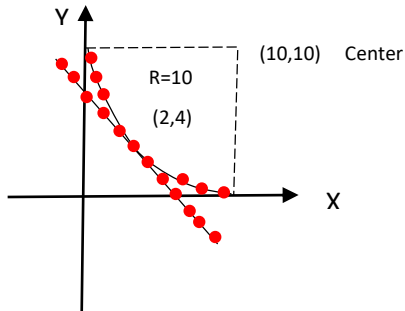


Circle and distance



$$(x - 10)^2 + (y - 10)^2 = 100, \quad \text{circle}$$

$$B(2,4) \quad (2 - 10)^2 + (4 - 10)^2 = 100$$

$$64 + 36 = 100$$

Through (2,4) we want to find the Target

$$(x_1 - 10)(x - 10) + (y_1 - 10)(y - 10) = 100$$

$$(2 - 10)(x - 10) + (4 - 10)(y - 10) = 100$$

$$-8(x - 10) - 6(y - 10) = 100$$

$$4(x - 10) + 3(y - 10) + 50 = 0$$

$$\text{Target} \Rightarrow 3y + 4x - 20 = 0, \quad a = \frac{-4}{3}$$

$$\frac{3y + 4x - 20}{+\sqrt{25}} = 0$$

Center C(10,10)

$$\frac{30 + 40 - 20}{5} = R = 10$$

$$a_1 = \frac{10 - 4}{10 - 2} = \frac{6}{8} = \frac{3}{4}$$

$$a_2 = \frac{-4}{3}$$

$$\left. \begin{array}{l} a_1 = \frac{3}{4} \\ a_2 = \frac{-4}{3} \end{array} \right\} \frac{3}{4} \cdot \left(-\frac{4}{3} \right) = -1$$