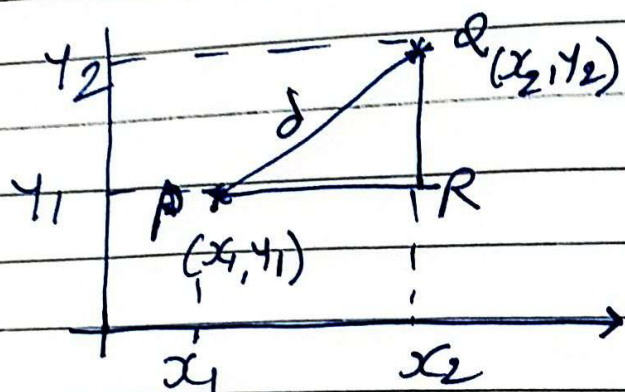


Euclidean & Manhattan Distance

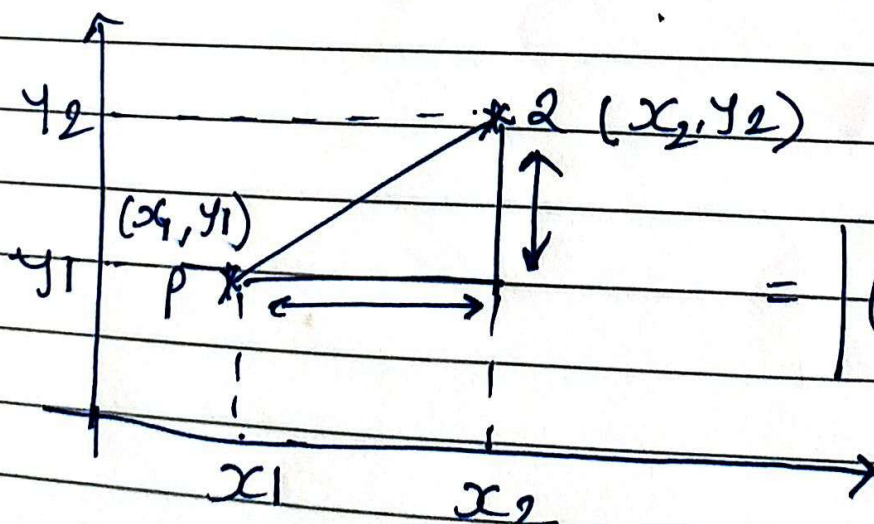


$$PQ^2 = PR^2 + QR^2$$

$$PQ = \sqrt{PR^2 + QR^2}$$

$$d = \text{Euclidean Distance} = PQ = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

* Manhattan Distance



$$= |x_2 - x_1| + |y_2 - y_1|$$

↑
Absolute value