

Distance Formula: the distance between points $A(x_1,y_1)$ and

 $B(x_2,y_2)$ is given by

$$(AB)^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2 \text{ or } AB = \sqrt{[(x_2 - x_1)^2 + (y_2 - y_1)^2]}$$