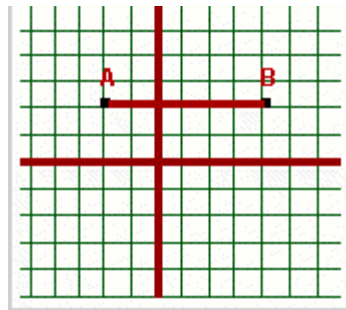


Distance Between Two Points

Y coordinates are the same:

Example The coordinates, x,y are $(4,2)$ at point B and $(-2,2)$ at point A.
Subtract the X coordinates to find the distance between the 2 points.

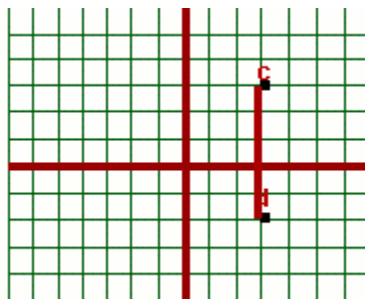
$4 - (-2) = 6$ The distance between A and B is 6 units.



X coordinates are the same

Example The coordinates are $(3,3)$ and $(3,-2)$.
The X coordinates are the same. Subtract the Y coordinates to find the distance between the 2 points.

$3 - (-2) = 5$ The Distance between point c and d is 5 units.



coordinates are different

Example: The coordinates are (5,4) at point f and (-3,-2) at point e.
Use the distance formula. See below for the formula.

$$\begin{aligned} (-3 - 5)^2 + (-2 - 4)^2 &= 64 + 36 = 100 \\ \text{square root of } 100 &= 10 \end{aligned}$$

The distance between f and e is 10 units.

