

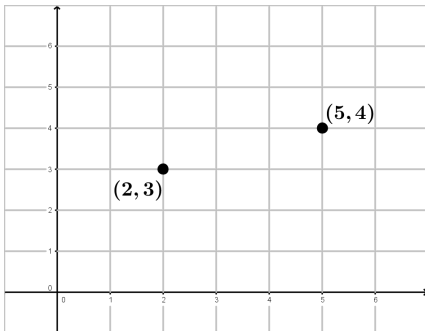
Distance Between Points - Example

Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

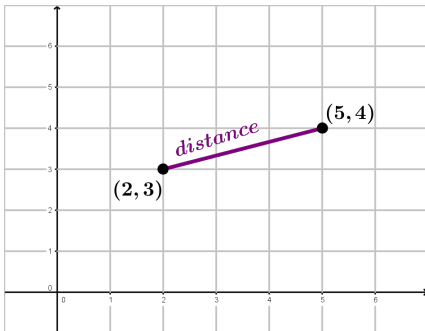


Distance Between Points - Example

Example: Find the distance between points (2, 3) and (5, 4)

▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

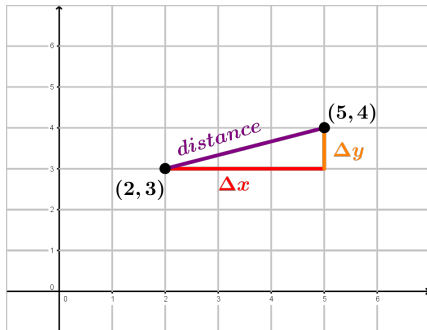
▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$

We can compute Δx and Δy as:

Δx

Δy



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

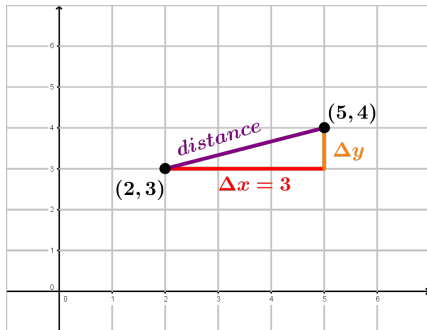
As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$

We can compute Δx and Δy as:

$$\Delta x = 5 - 2 = 3$$

$$\Delta y$$



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

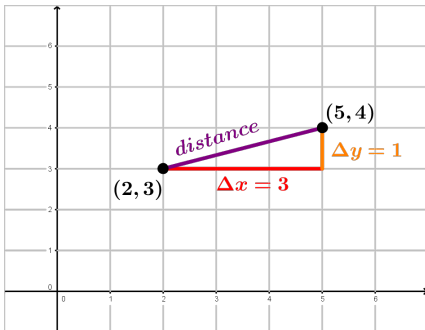
▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$

We can compute Δx and Δy as:

$$\Delta x = 5 - 2 = 3$$

$$\Delta y = 4 - 3 = 1$$



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

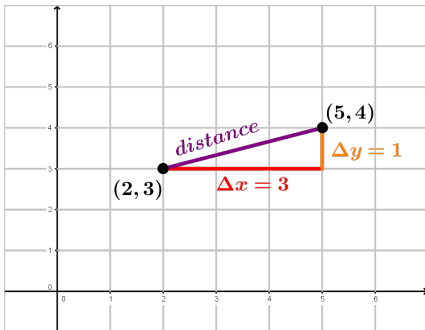
▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2} = \sqrt{(3)^2 + (1)^2}$$

We can compute Δx and Δy as:

$$\Delta x = 5 - 2 = 3$$

$$\Delta y = 4 - 3 = 1$$



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

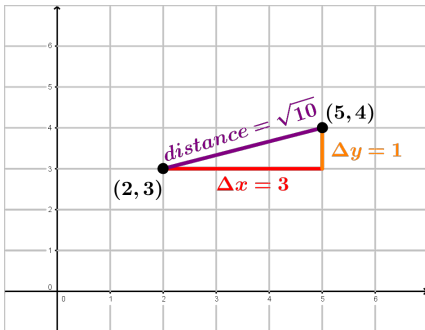
▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2} = \sqrt{(3)^2 + (1)^2} = \sqrt{10}$$

We can compute Δx and Δy as:

$$\Delta x = 5 - 2 = 3$$

$$\Delta y = 4 - 3 = 1$$



Distance Between Points - Example

Example: Find the distance between points $(2, 3)$ and $(5, 4)$

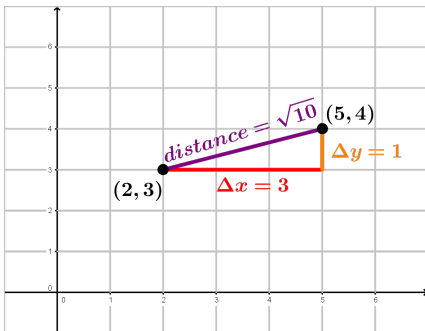
▶ As we saw before we can compute the distance using:

$$\text{distance} = \sqrt{(\Delta x)^2 + (\Delta y)^2} = \sqrt{(3)^2 + (1)^2} = \sqrt{10}$$

We can compute Δx and Δy as:

$$\Delta x = 5 - 2 = 3$$

$$\Delta y = 4 - 3 = 1$$



Conclusion: The distance between $(2, 3)$ and $(5, 4)$ is $\sqrt{10}$