

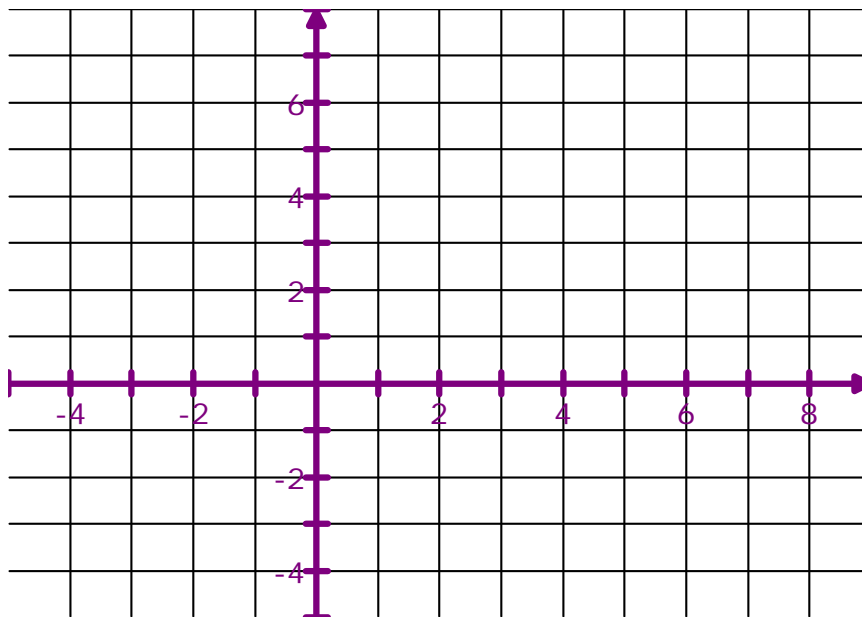
## Understanding the Distance Formula

$(-1, -4)$  and  $(1, -4)$   
 $(-2, 1)$  and  $(2, 1)$   
 $(-4, 6)$  and  $(8, 6)$

Graph these pairs of points to create three line segments.

Find the length of the three line segments.

Explain how you found its lengths.

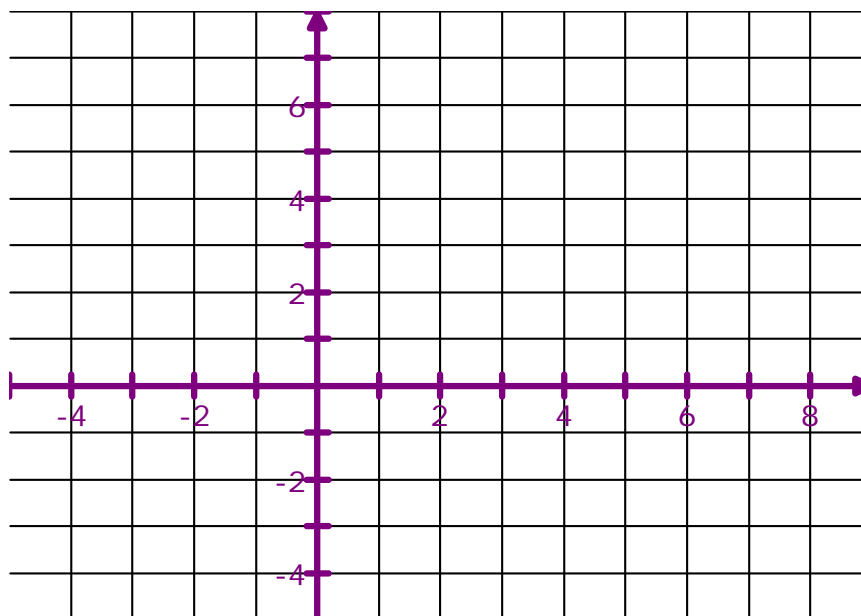


$(1, -4)$  and  $(1, 6)$   
 $(-2, 1)$  and  $(-2, -3)$   
 $(-4, 6)$  and  $(-4, -2)$

Graph these pairs of points to create three line segments.

Find the length of the three line segments.

Explain how you found its length.

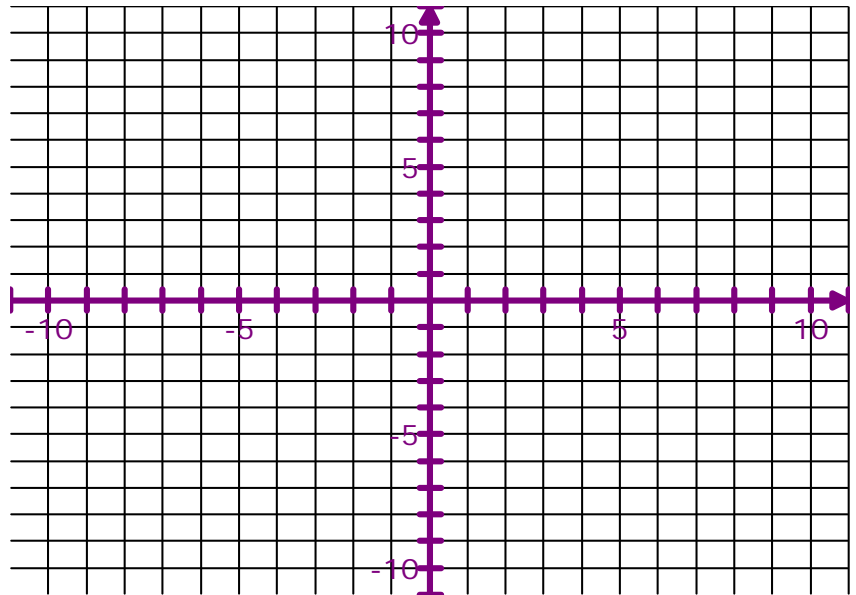


$(6,3)$  and  $(2,6)$

Graph this pair of points and create the line segment between them.

Draw a line that shows the vertical change and a line that shows the horizontal change.

Explain how you found their lengths.



$(3,3)$  and  $(-7,-2)$

Graph this pair of points and create the line segment between them.

Draw a line that shows the vertical change and a line that shows the horizontal change.

Explain how you found their lengths.

