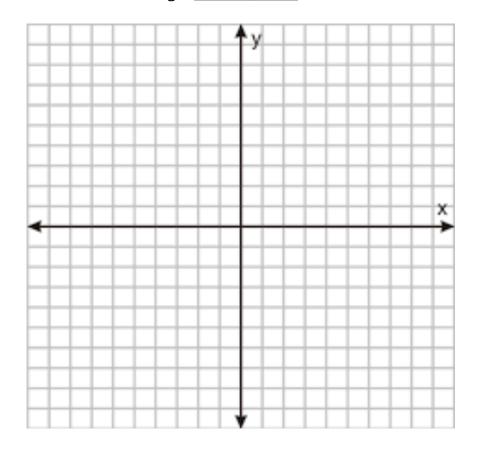
Polygons on the coordinate plane

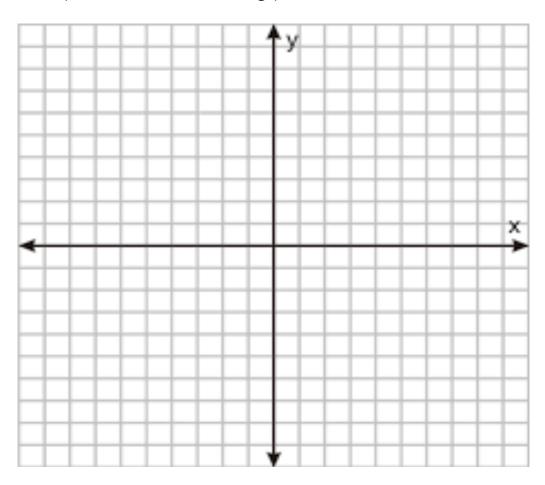
Please print this out and complete the assignment. If you don't have a printer than use a piece of graph paper to complete the five problems.

1) Plot the pairs of points, and find the length of the segments created:

- a) (-2, 5) (-2, -4) length:____
- b) (-5, 3) (1, 3) length:_____
- c) (0, 7) (0, 0) length:_____
- d) (6, 0) (-3, 0) length:____



2) Graph and label the following points: A (-2, -2) B (-2, 3) C (3, -2)

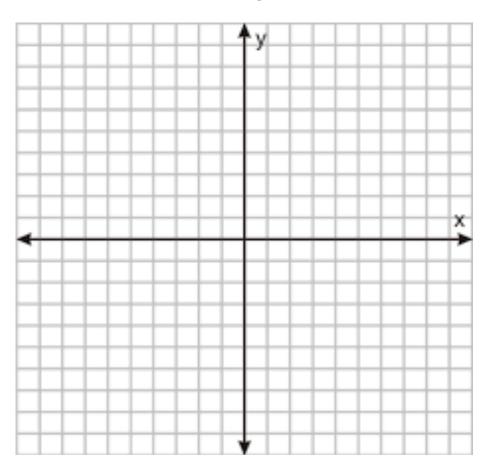


To make this a rectangle, where would point D lie?

How	long	İS	segment	AB?	
How	long	is	segment	AC?	
How	long	is	segment	BD?	
How	long	is	segment	CD?	

What is the area of rectangle ABCD? ______ What is the perimeter of rectangle ABCD? _____

3) Graph and label the following points: P(1, 0) S(5, 0) T(5, 8)

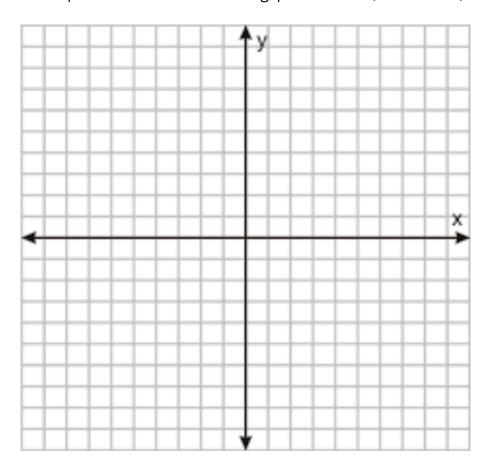


To make this a rectangle, where would point N lie?

How	long	is	segment	PS?	
How	long	is	segment	ST?	
How	long	is	segment	TN?	
How	long	is	segment	NP?	

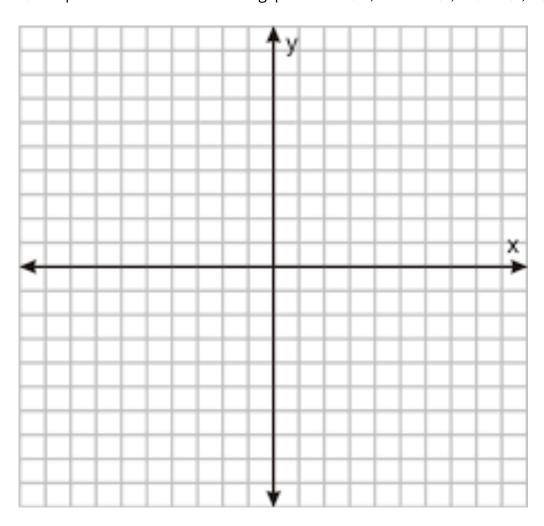
What is the area of rectangle PSTN? ______ What is the perimeter of rectangle PSTN? _____

4) Graph and label the following points: C (-8, -2) A (-7, 2) R (-2, -2) \times



To make this a parallelogram, where would point S lie?

How long is segment SA? ______ How long is segment CR? _____ 5) Graph and label the following points: B (-2, -2) X (3, -2) L (5, 3)



To make this a parallelogram, where would point Z lie?

How long is segment ZL? ______ How long is segment BX? _____