

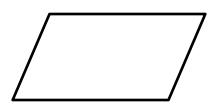
## **<u>Midpoint formula:</u>** Find the midpoint between the given points.

This is the midpoint formula.

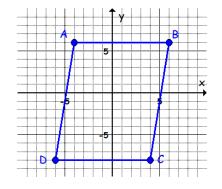
1. Use the midpoint formula to find the midpoint. Show your work.a. (-4, 5) and (-2, 11)b. (4, -3) and (-7, 5)

## Midpoints of the diagonals of a parallelogram:

We know the diagonals of a parallelogram bisect each other. Show this on the parallelogram:



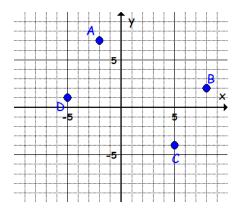
ABCD is a parallelogram, find the midpoints of both diagonals.

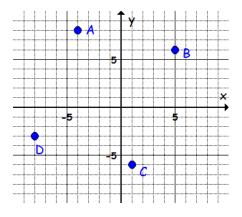


What do you notice?

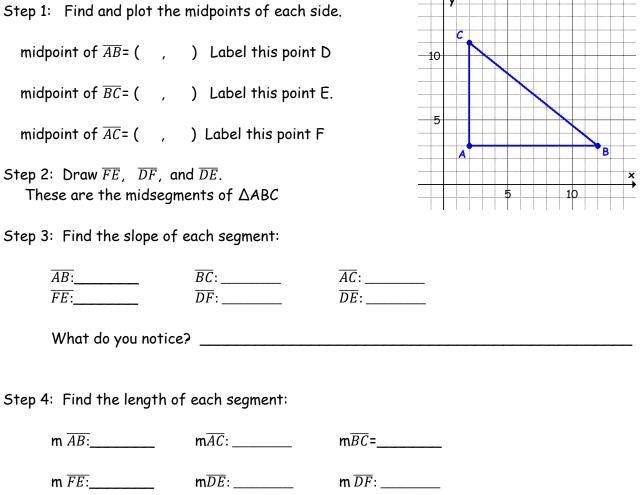
If the midpoints are different, can it still be a parallelogram? Explain.

In this unit, you have learned the distance formula, slope and midpoints. Using this knowledge, determine if the points form a parallelogram. Show your work.





## <u>Midsegments of triangles</u>



What can you prove about the four triangles you created with the midsegments?

What do you notice? \_\_\_\_\_