POSITION AND DIRECTION– DAY 2

To be able to draw shapes and plot coordinates in the first quadrant

SUCCESS CRITERIA

✓I can plot coordinates when both the *x* and *y* coordinates have a positive value, also completing or drawing shapes using given coordinates

✓I can explain my reasoning when plotting coordinates when both the *x* and *y* coordinates have a positive value, and when completing or drawing shapes using given coordinates

To be able to draw shapes and plot coordinates in the first quadrant

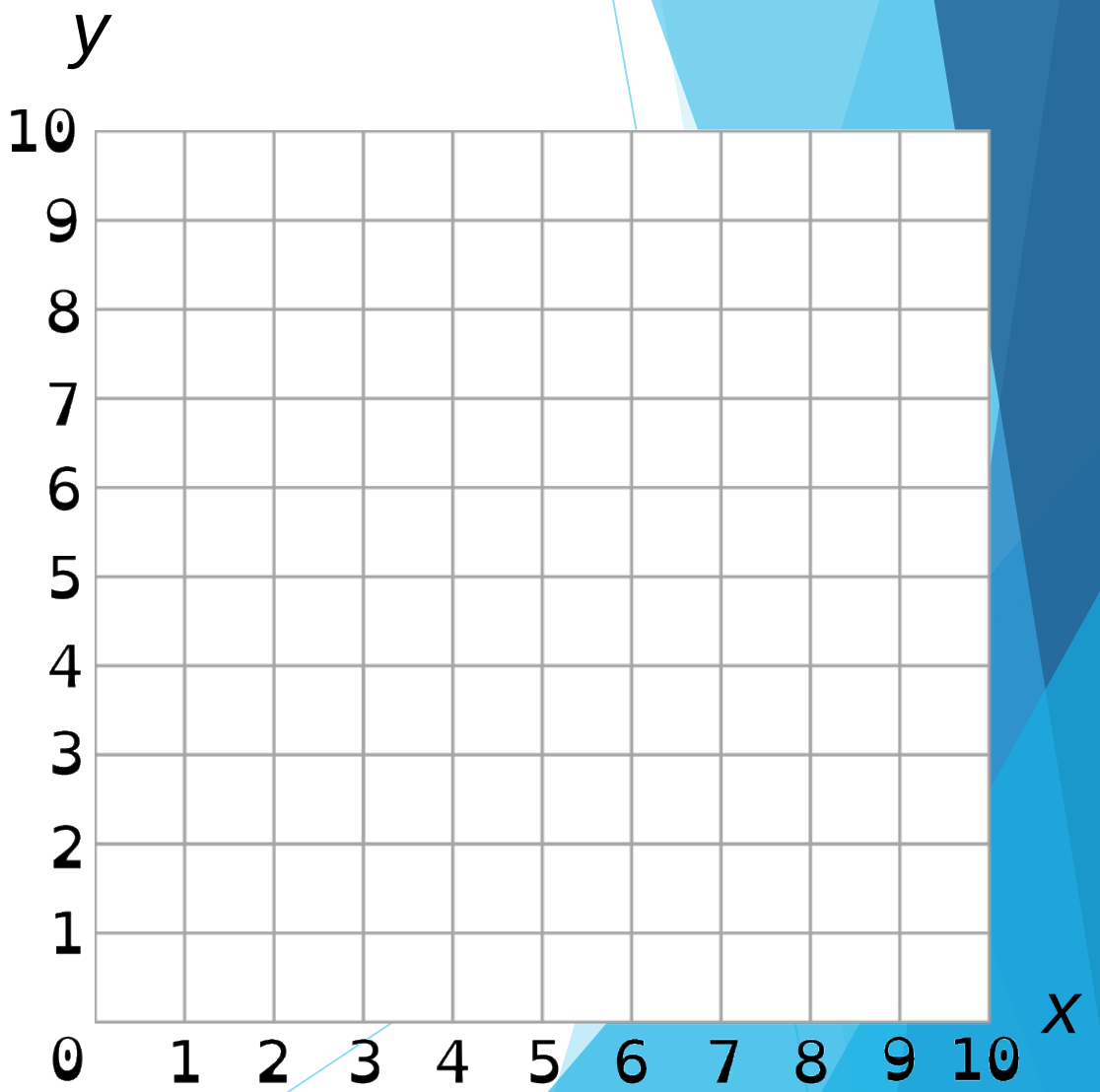
Starter:

Plot the following shapes using the coordinates given:

- triangle (1,3)
- square (2,5)
- pentagon (7,8)
- circle (10,6)

Which shape's coordinates don't belong?

Explain your answer.



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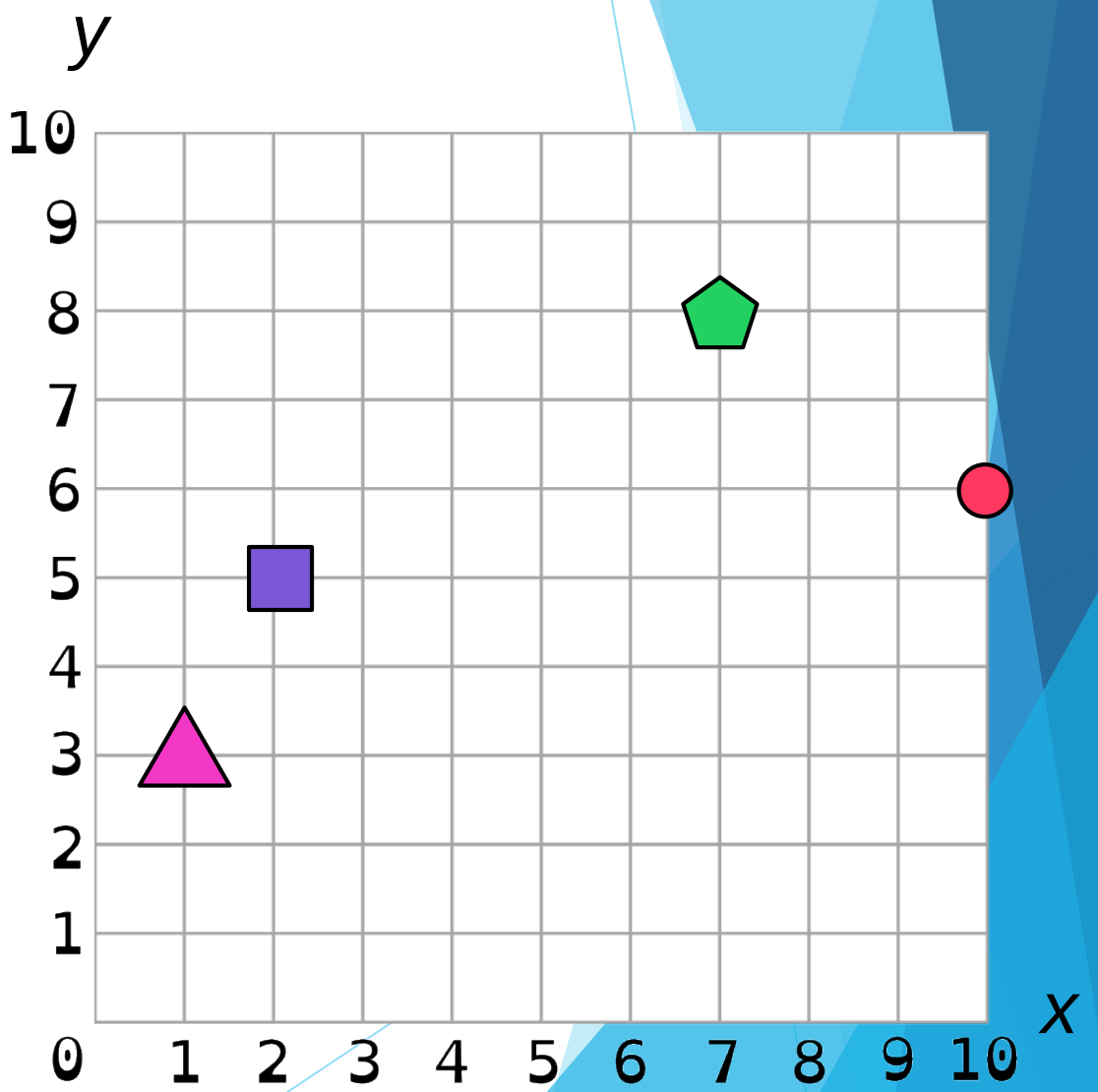


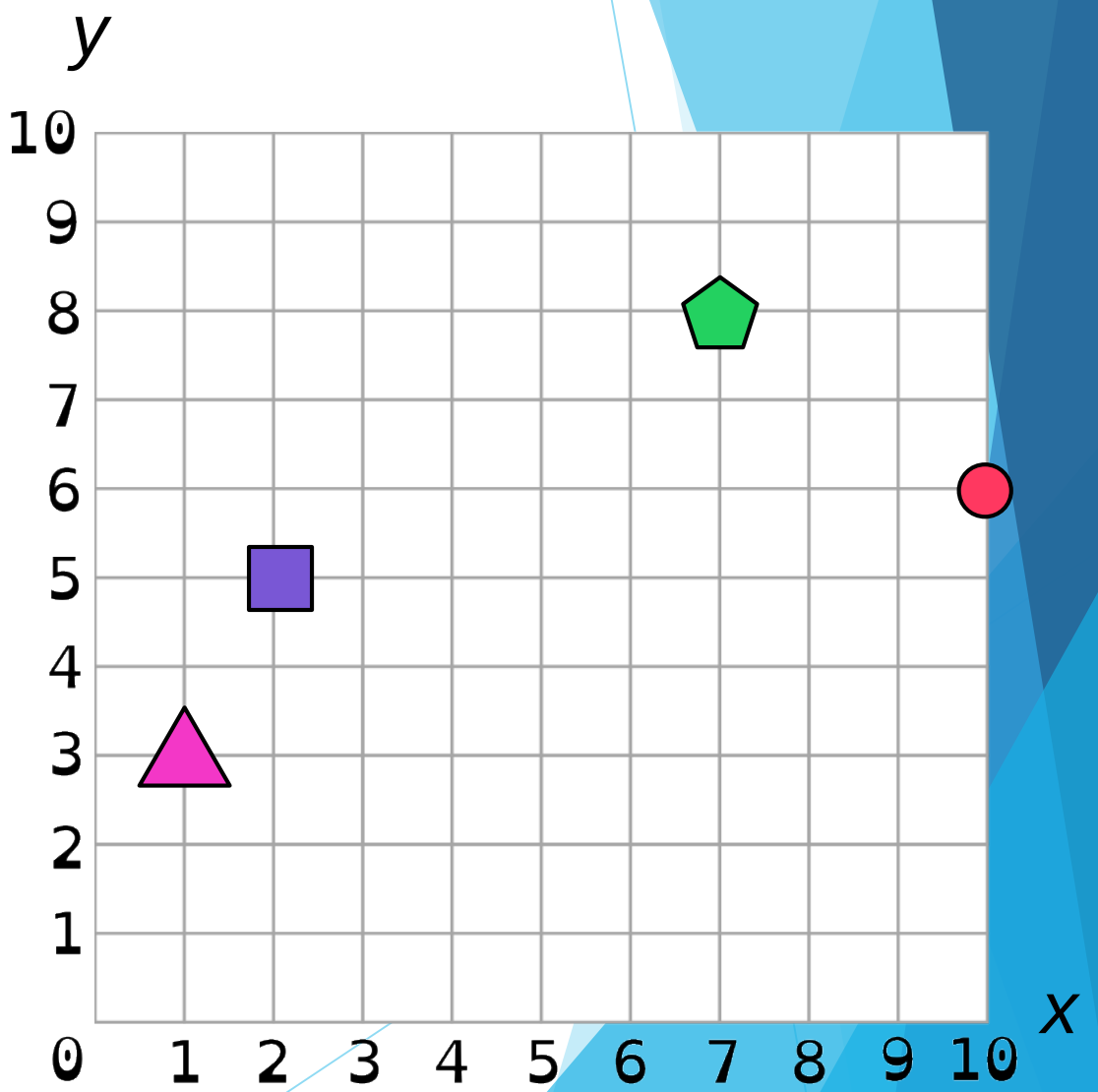
To be able to draw shapes and plot coordinates in the first quadrant

Starter:

Plot the following shapes using the coordinates given:

- triangle (1,3)
- square (2,5)
- pentagon (7,8)
- circle (10,6)

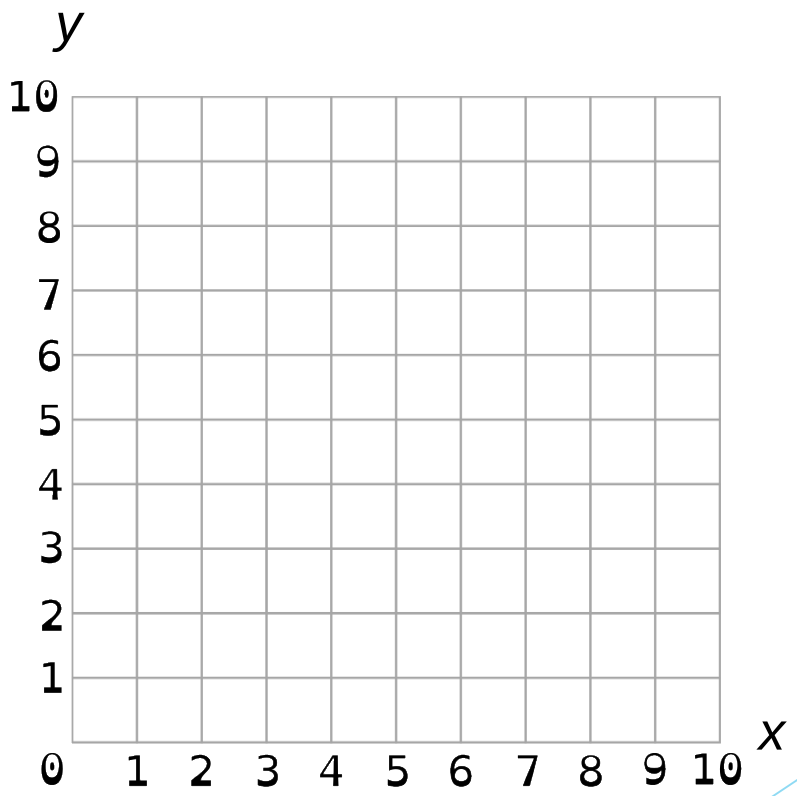
The circle's coordinates don't belong as both the x and y coordinate numbers are even.



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

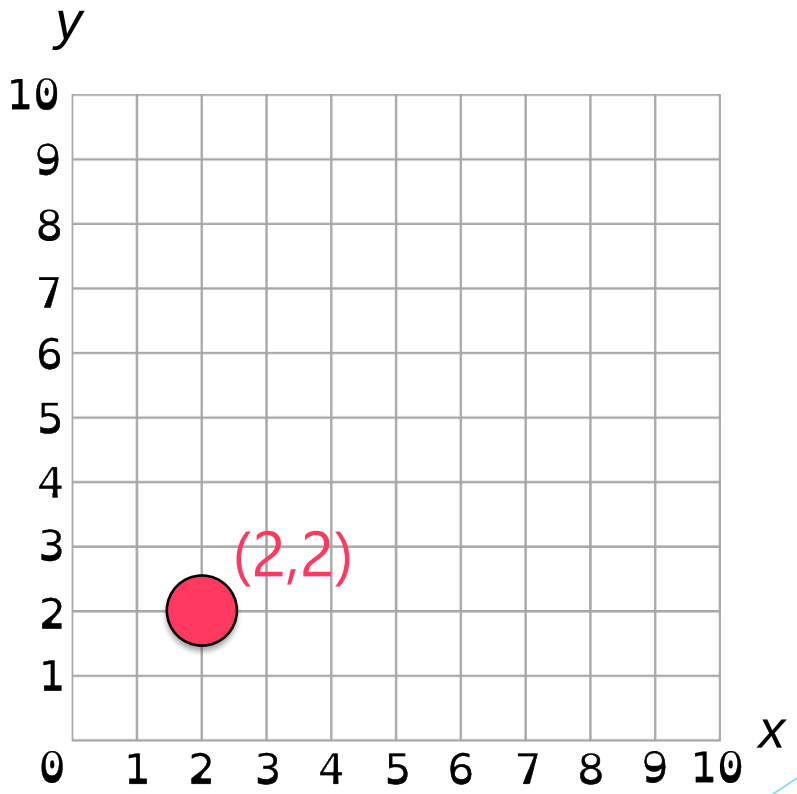
Plot the coordinate (2,2).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

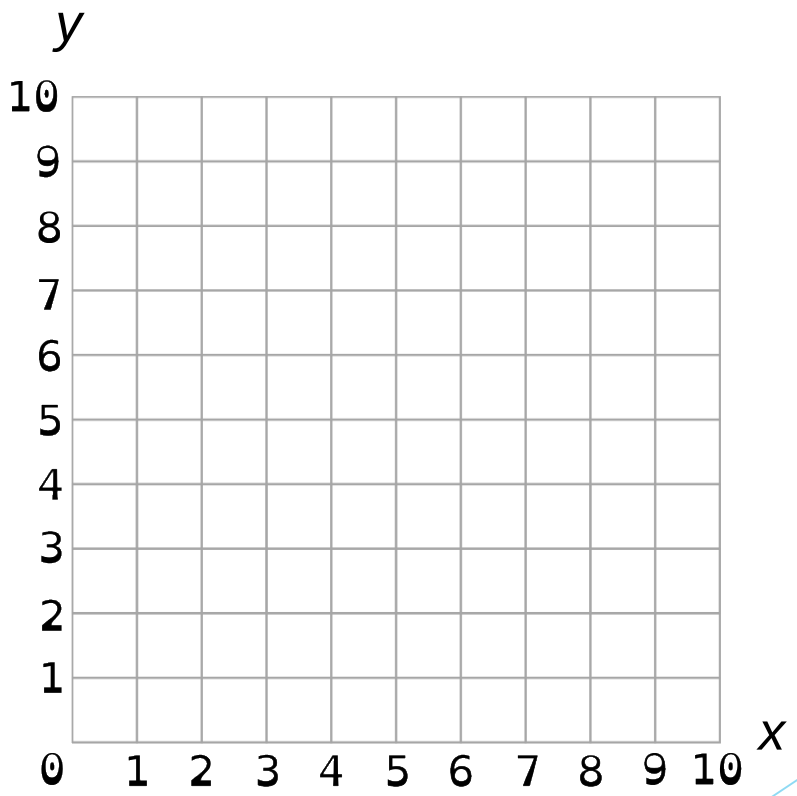
Plot the coordinate (2,2).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

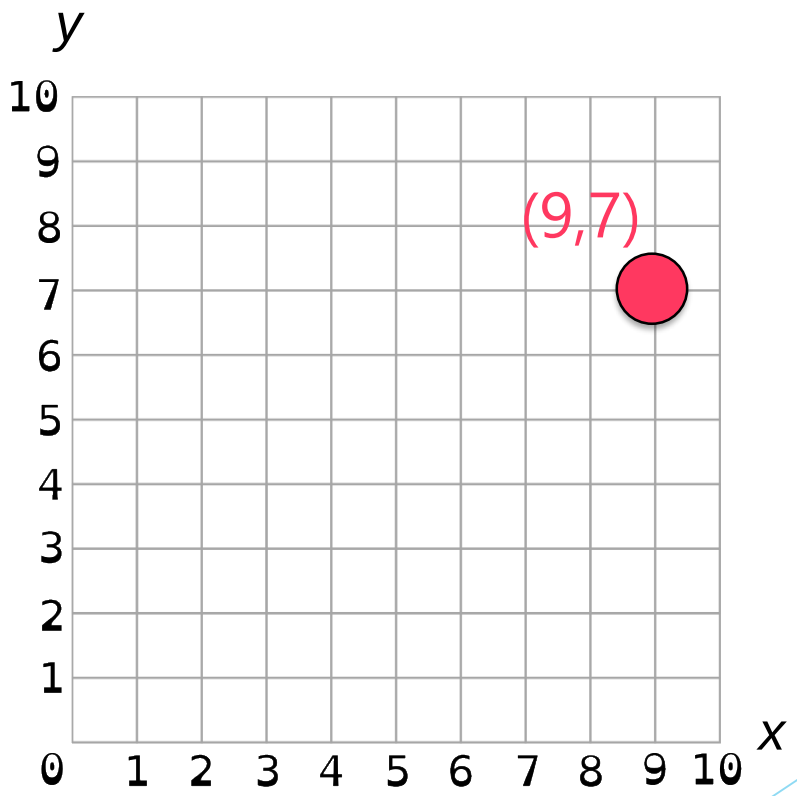
Plot the coordinate (9,7).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

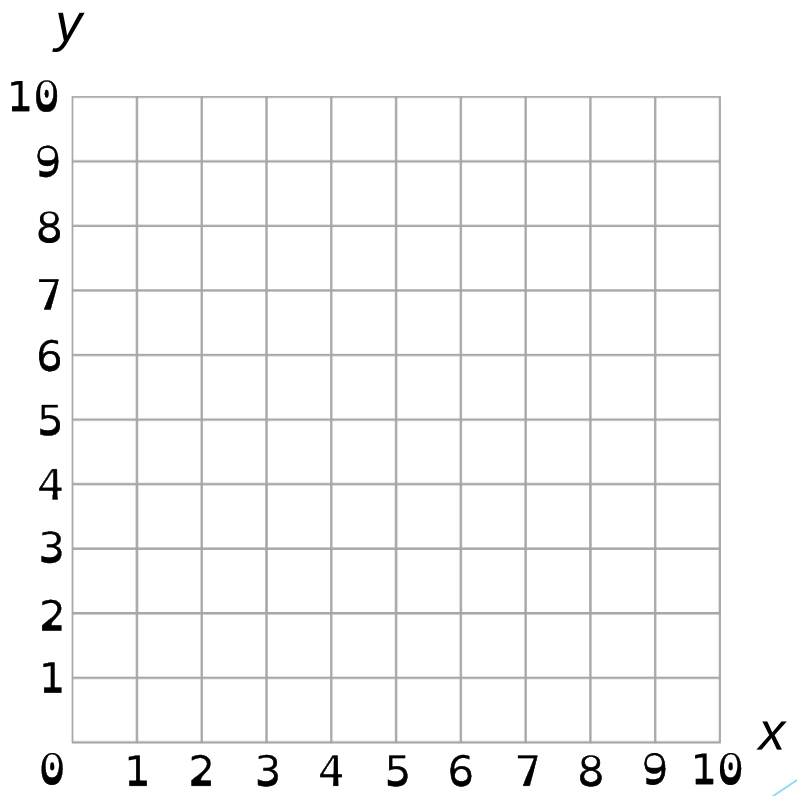
Plot the coordinate (9,7).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

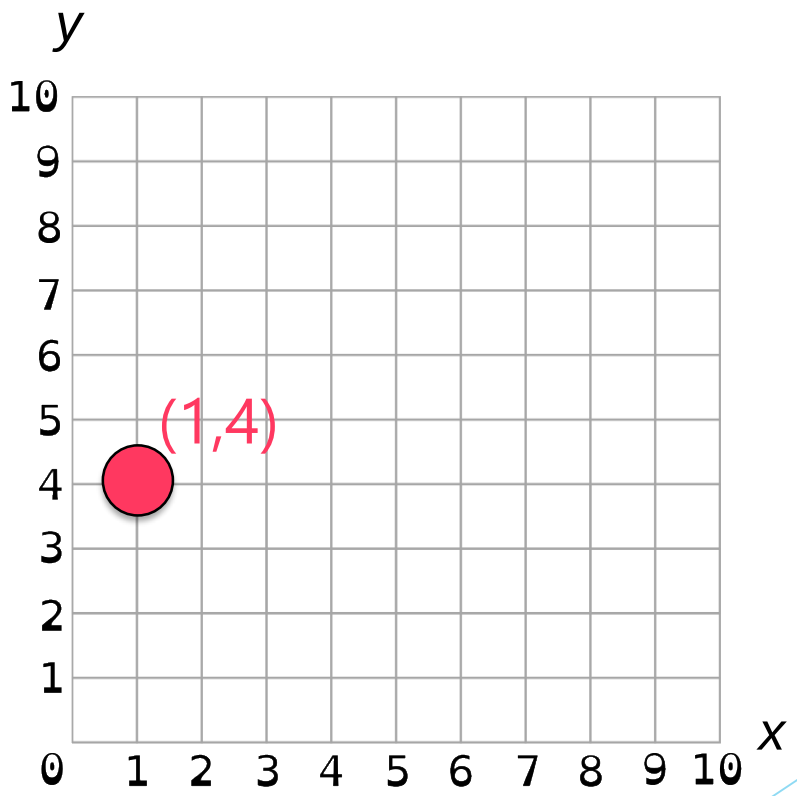
Plot the coordinate (1,4).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

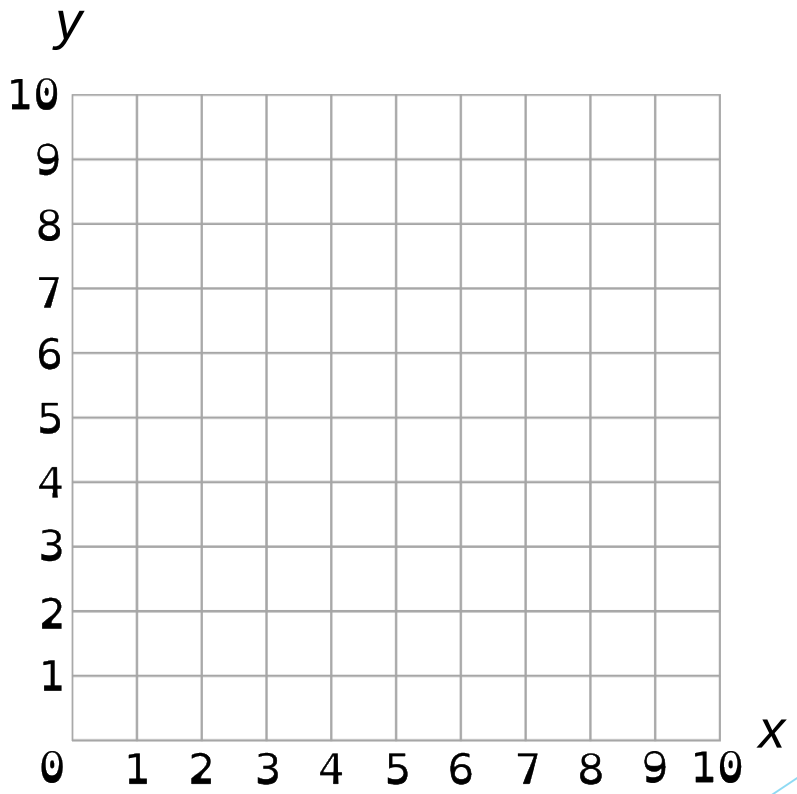
Plot the coordinate (1,4).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

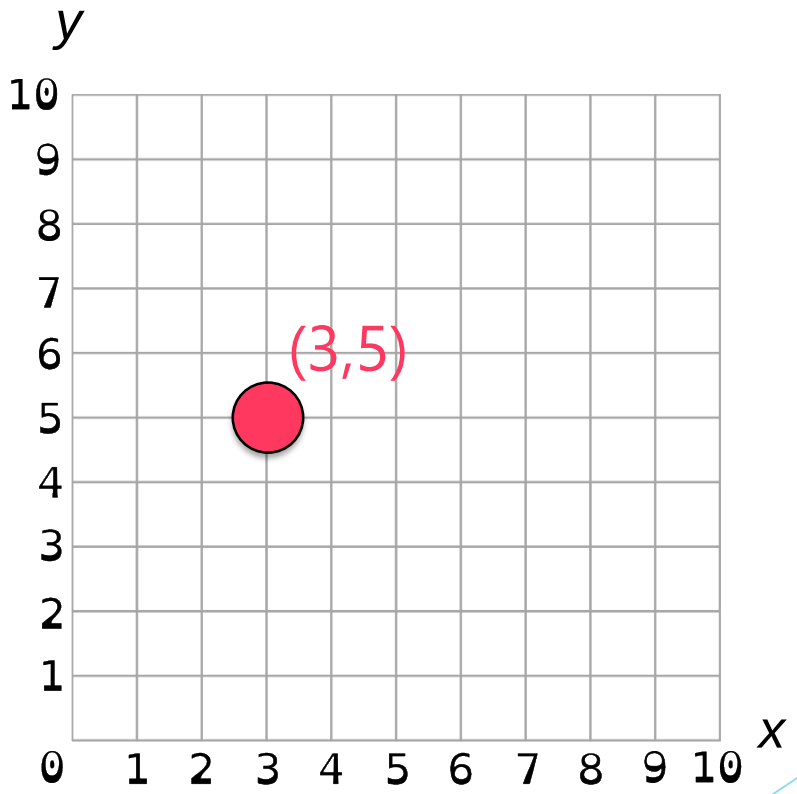
Plot the coordinate (3,5).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

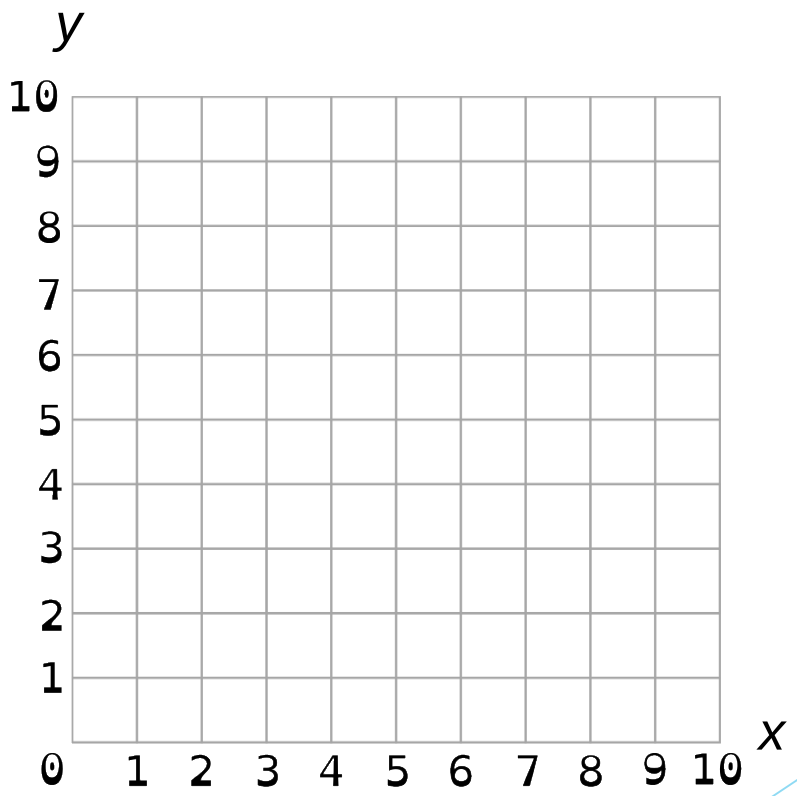
Plot the coordinate (3,5).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

Plot the coordinate (0,8).



To be able to draw shapes and plot coordinates in the first quadrant

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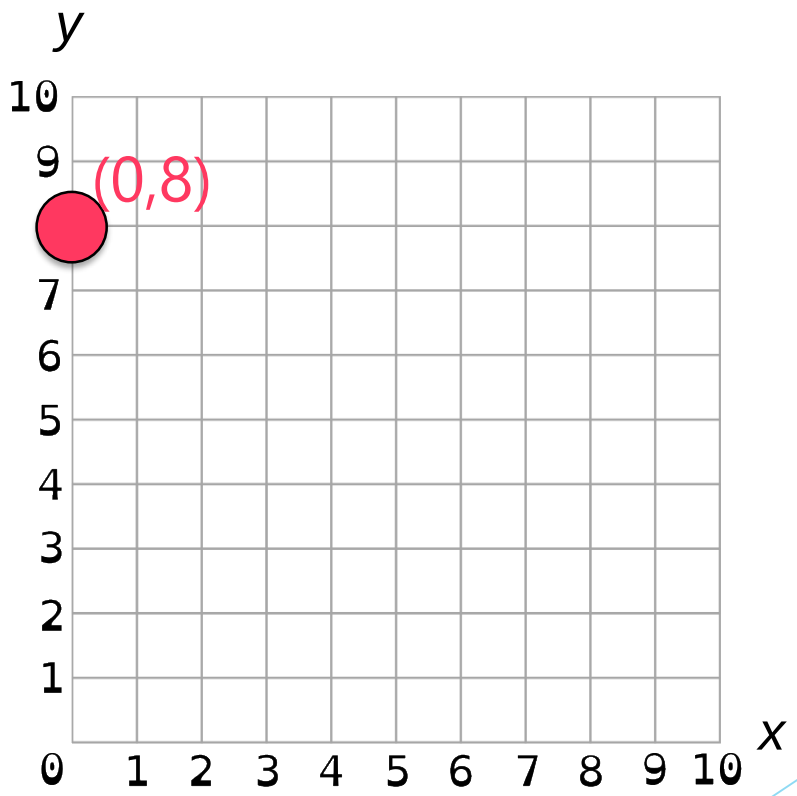
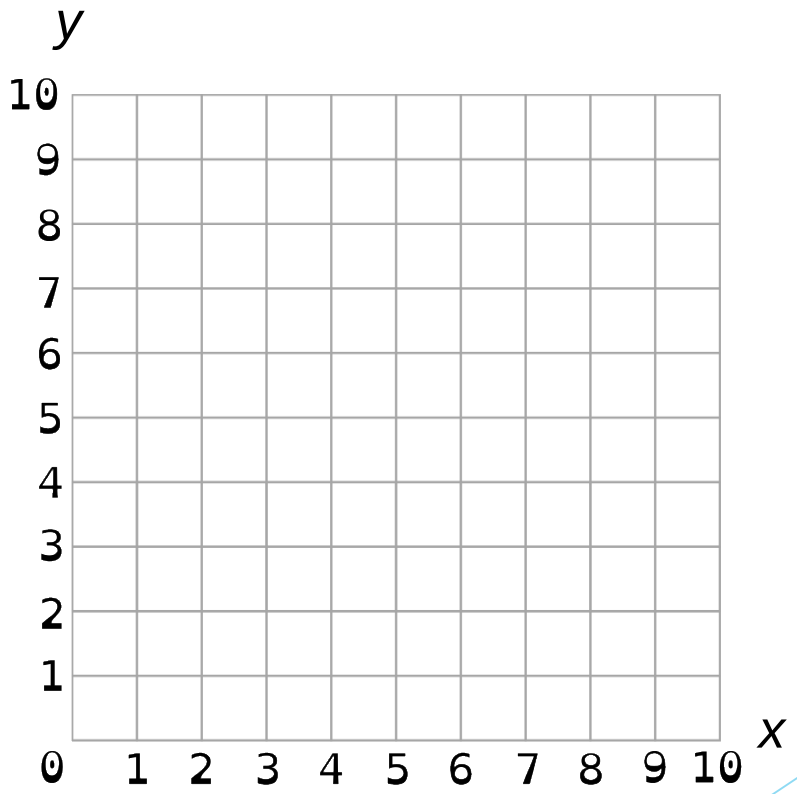
Plot the coordinate (0,8).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

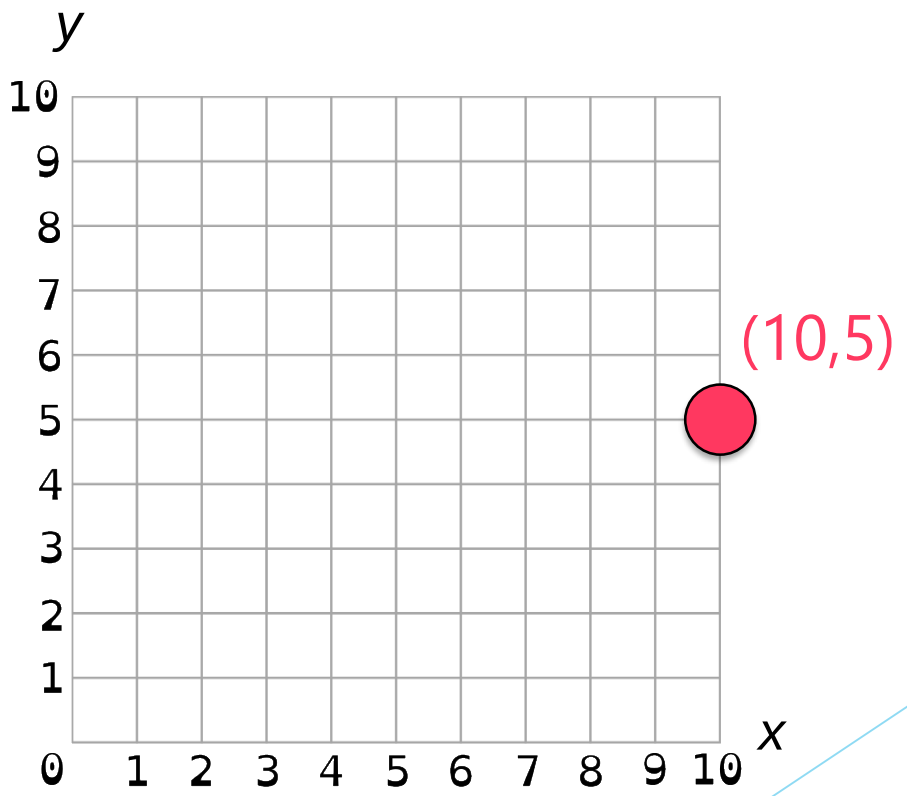
Plot the coordinate (10,5).



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

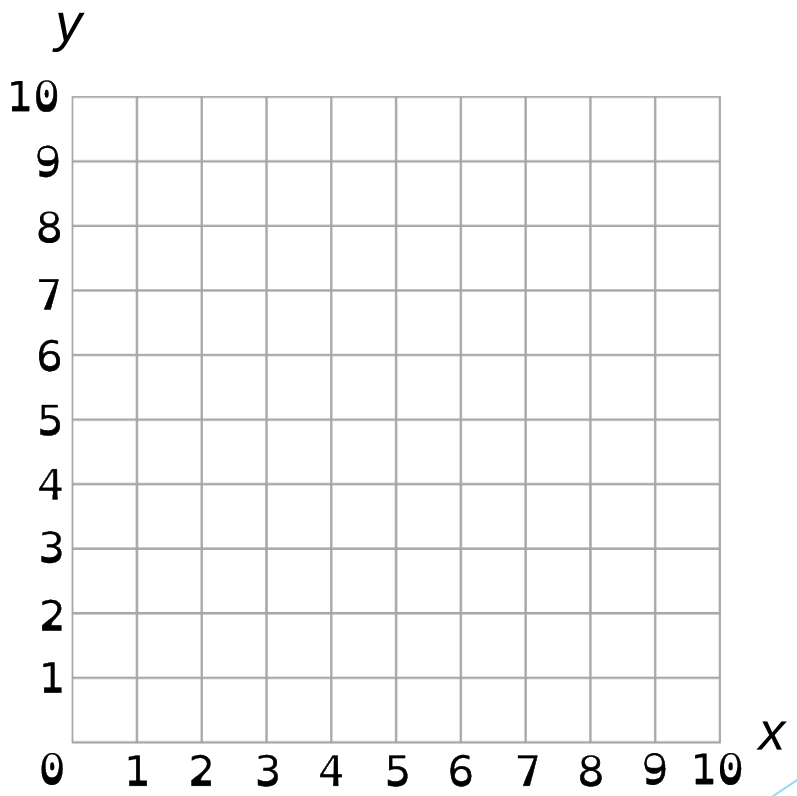
Plot the coordinate (10,5).



To be able to draw shapes and plot coordinates in the first quadrant

Activity 1:

Plot the following coordinates on the grid below: (4,4), (7,10), (9,7) and (10,0).



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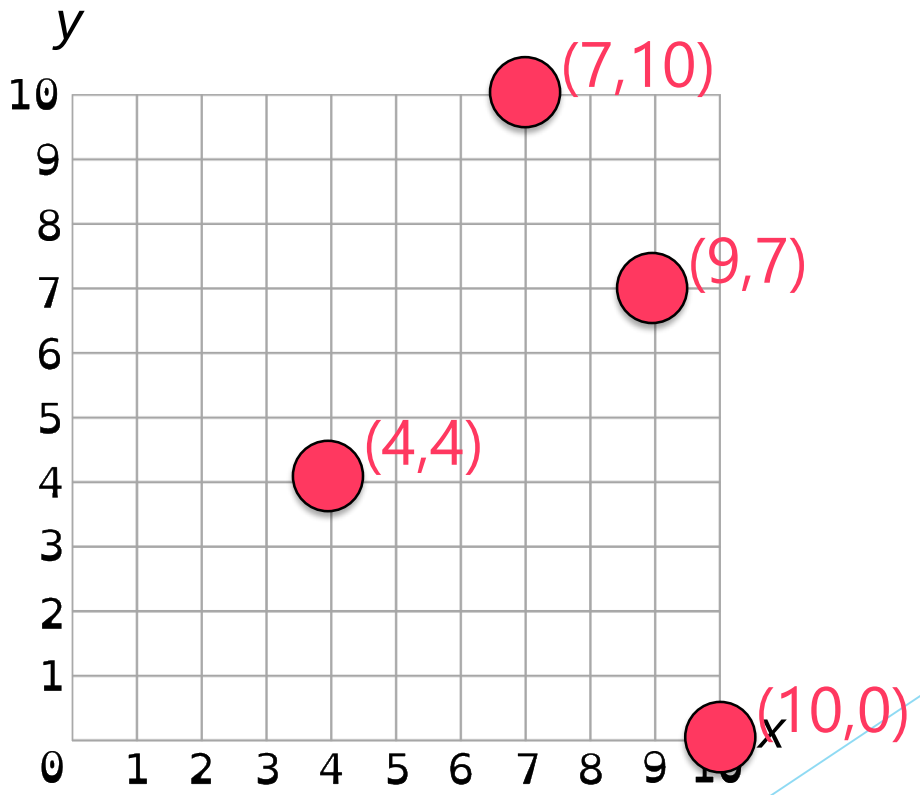
Plot the following coordinates on the grid below: (4,4), (7,10), (9,7) and (10,0).



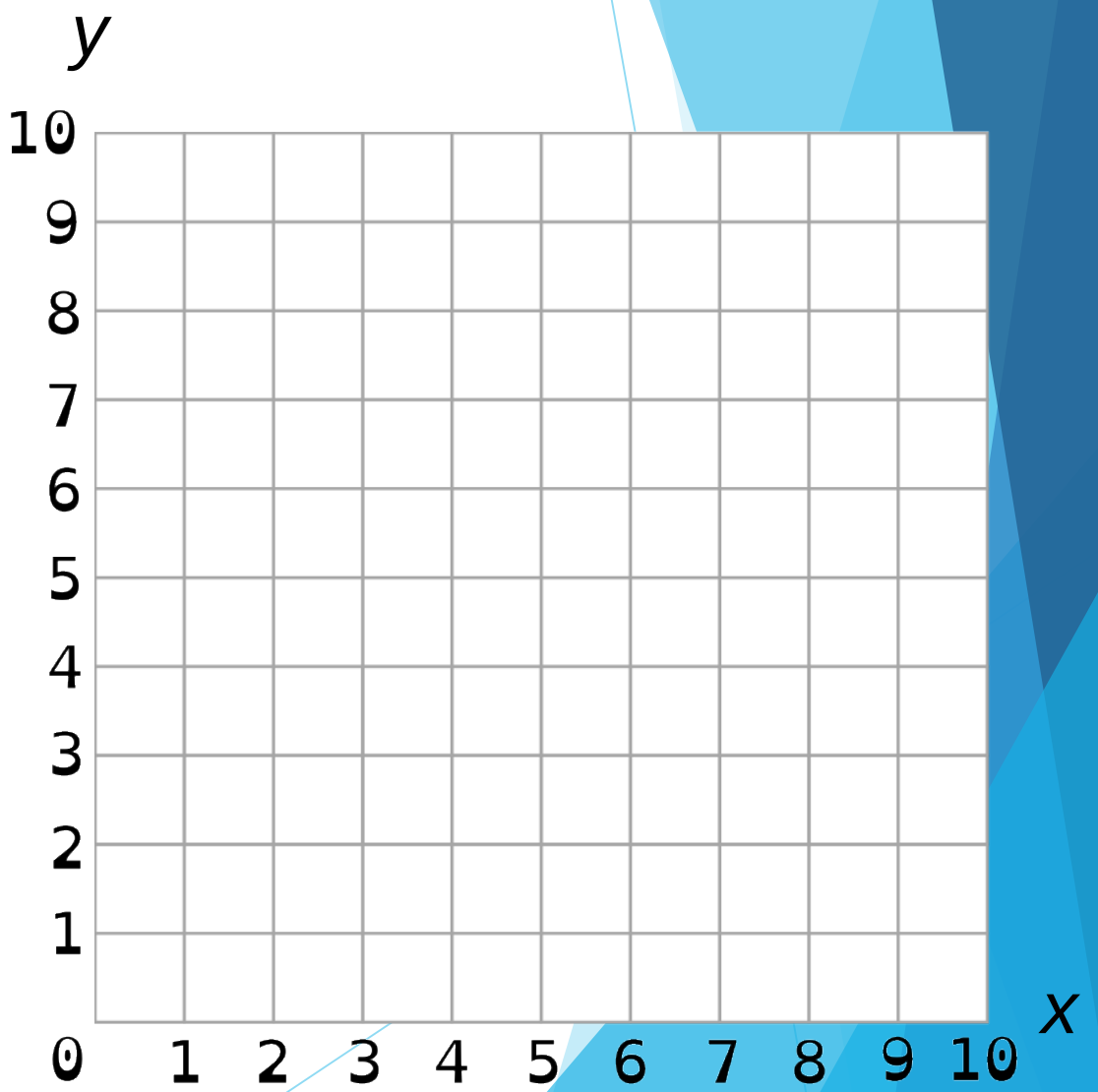
To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

Plot the following points:

- A (1,1)
- B (3,3)
- C (5,5)

Draw a line through the three points so they are joined together.
Plot two points that match the sequence.



To be able to draw shapes and plot coordinates in the first quadrant

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- A (1,1)
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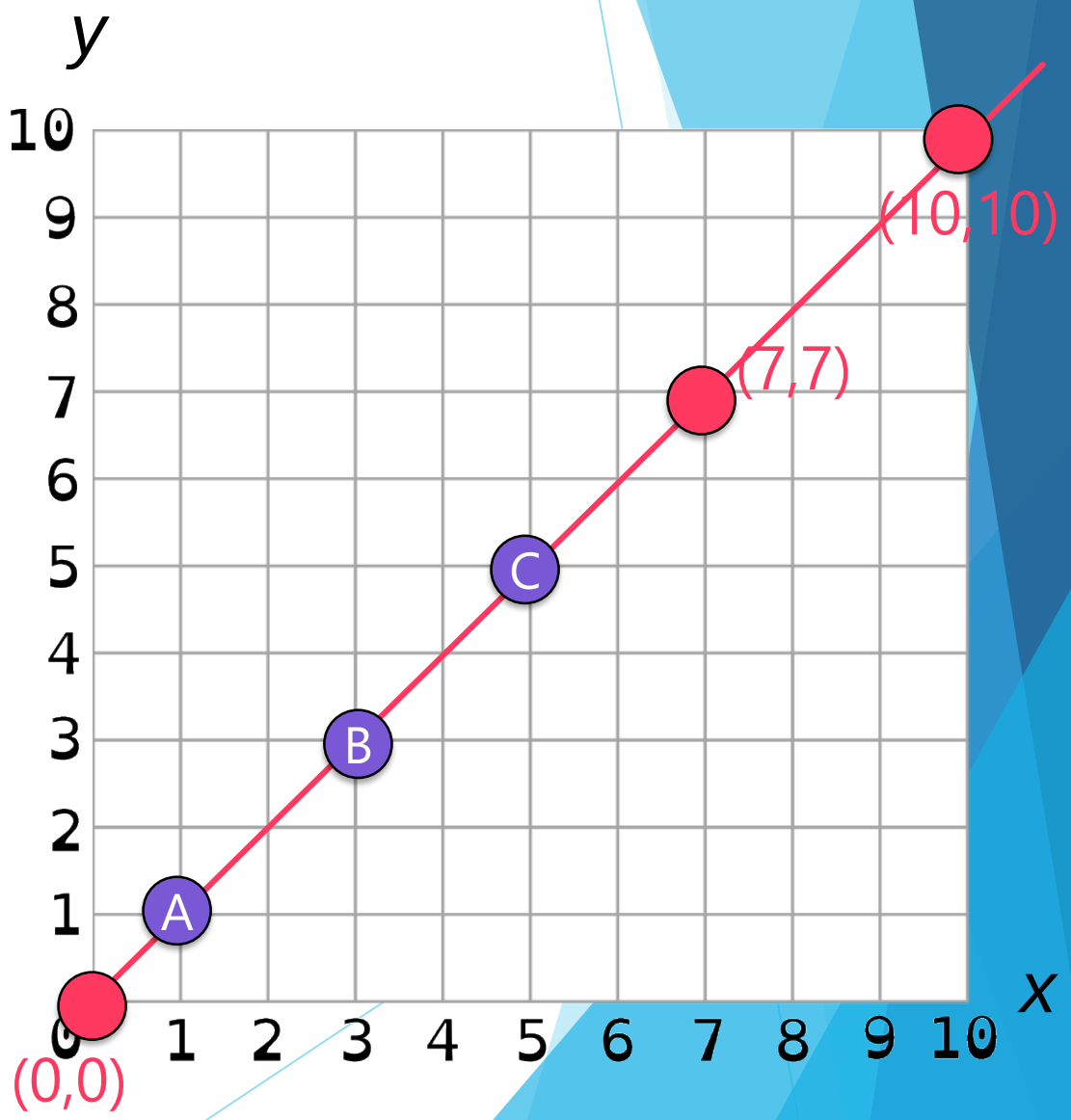


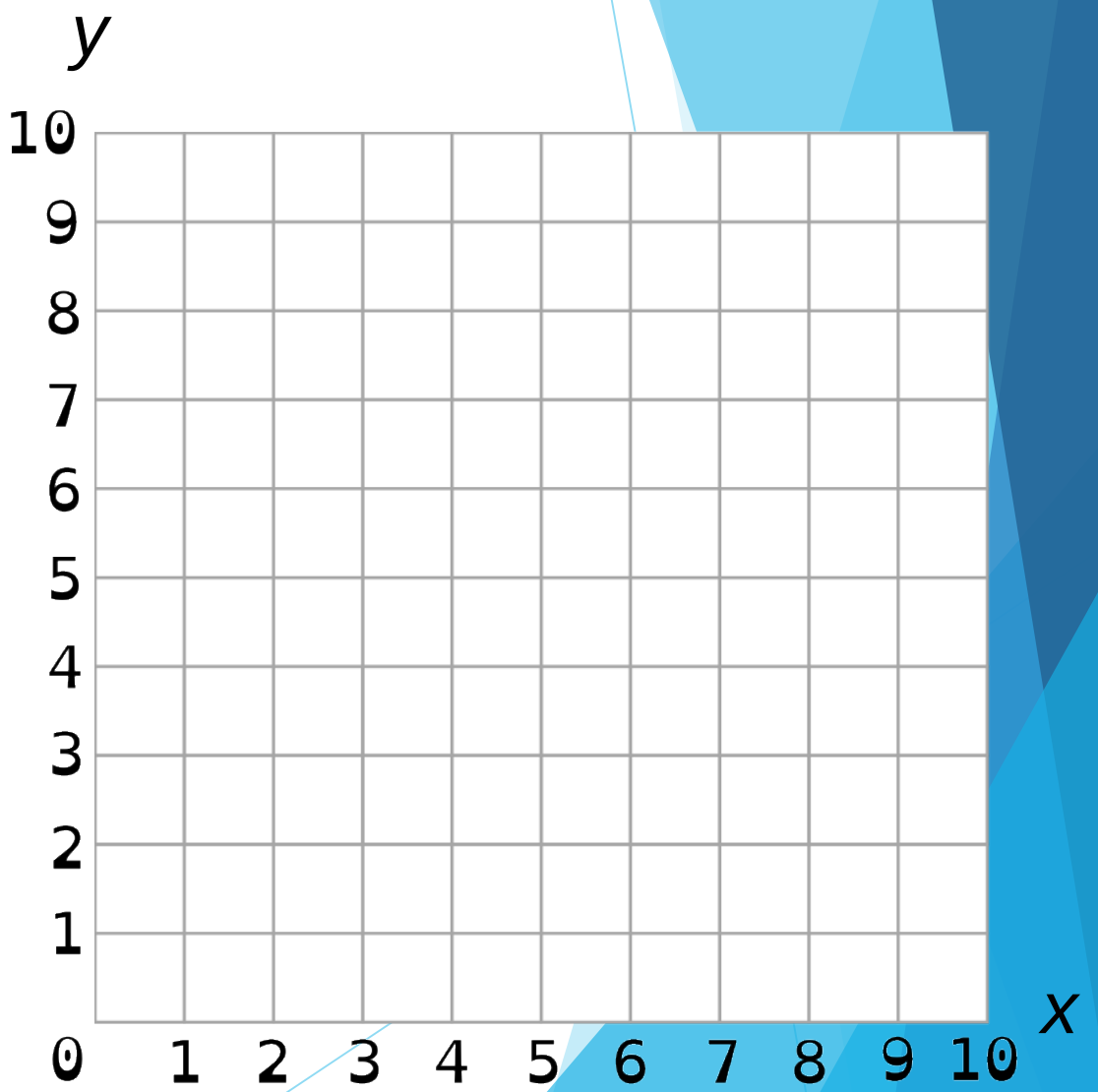
To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

Plot the following points:

- A (1,8)
- B (3,7)
- C (5,6)

Draw a line through the three points so they are joined together.
Plot two points that match the sequence.



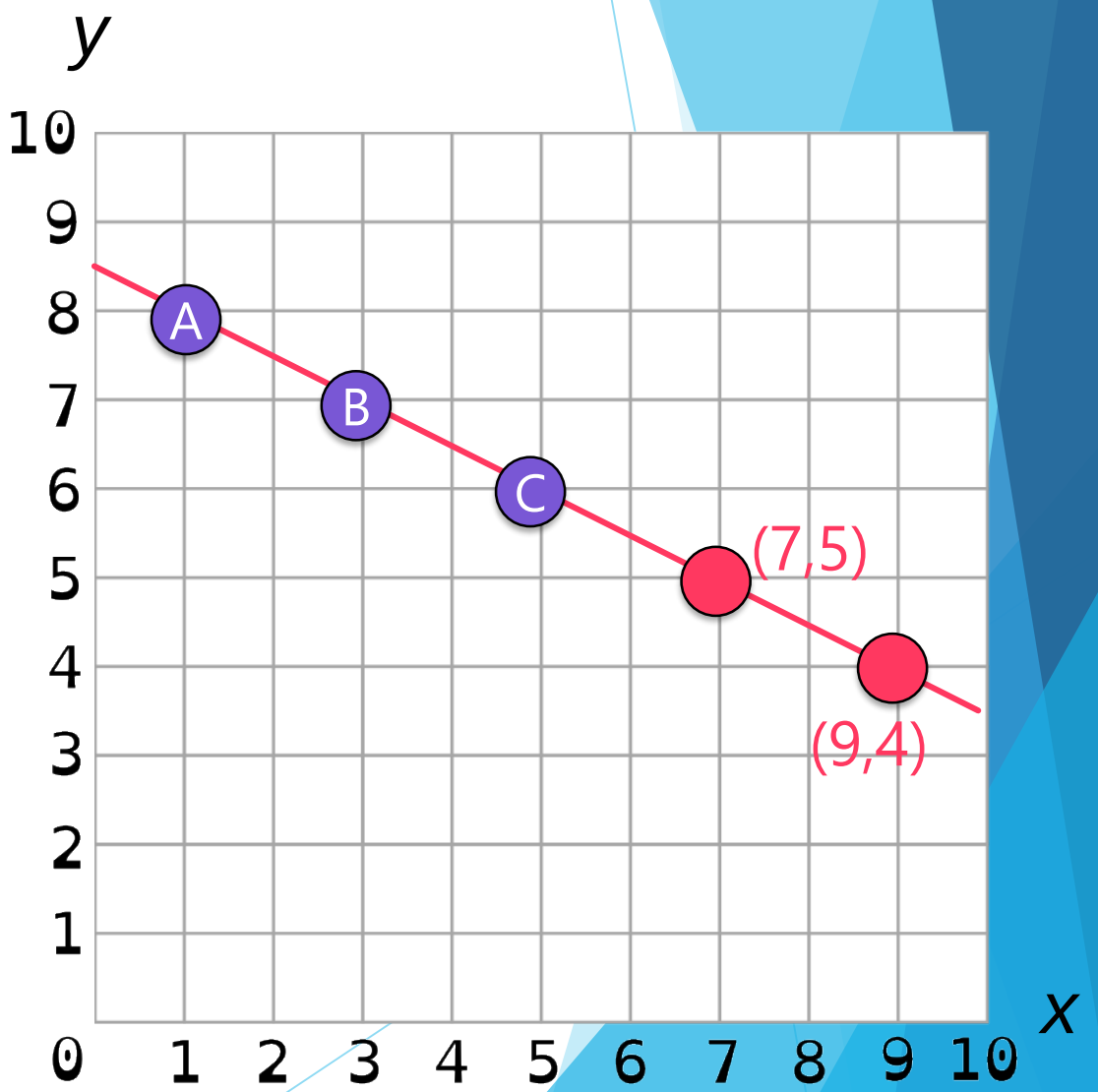
To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

Plot the following points:

- A (1,8)
- B (3,7)
- C (5,6)

Draw a line through the three points so they are joined together.
Plot two points that match the sequence.



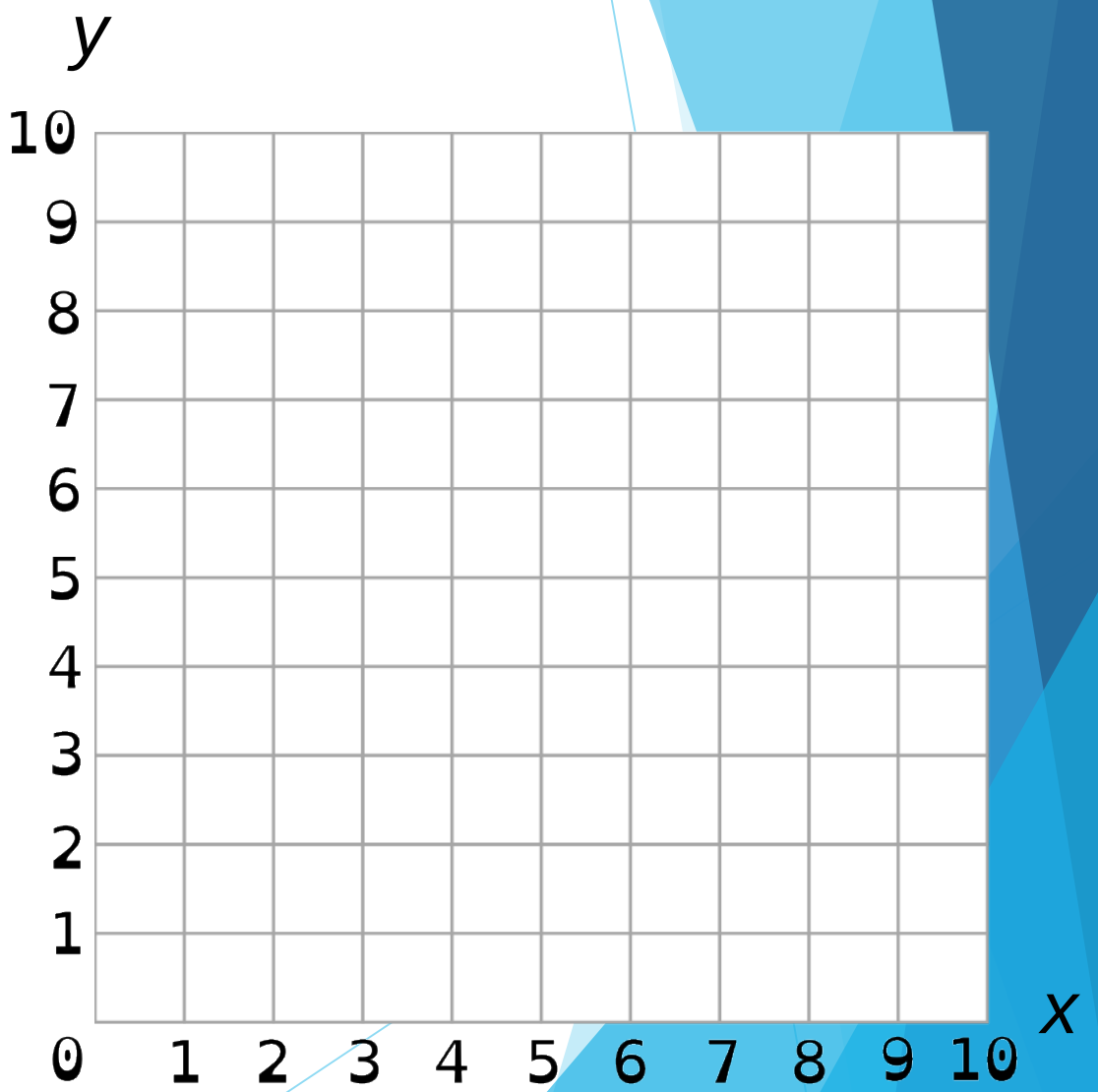
To be able to draw shapes and plot coordinates in the first quadrant

Activity 2:

Plot the following points:

- A (2,7)
- B (3,5)
- C (4,3)

Draw a line through the three points so they are joined together.
Plot two points that match the sequence.



To be able to draw shapes and plot coordinates in the first quadrant

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Plot the following points:

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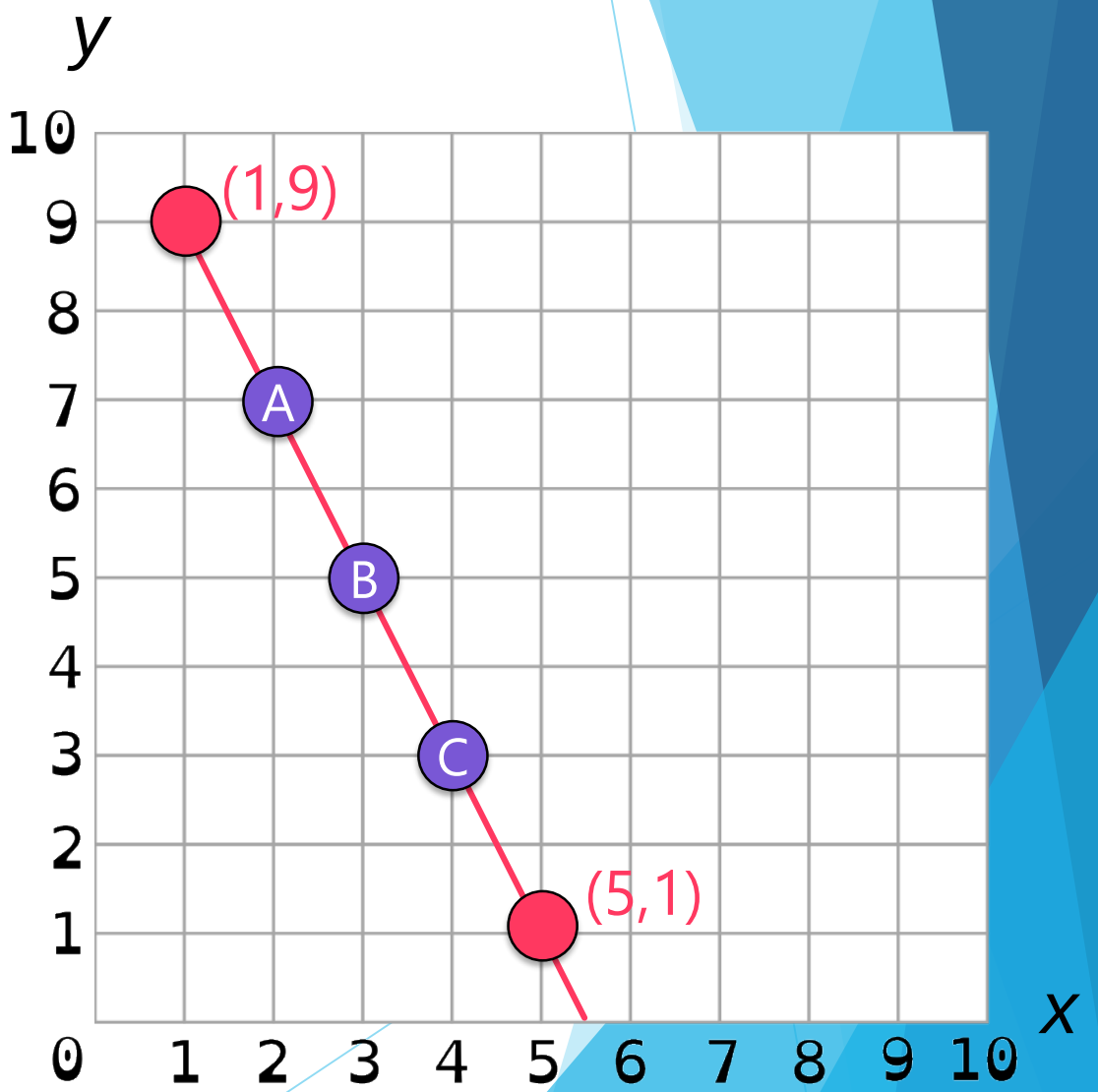
- C (4,3)

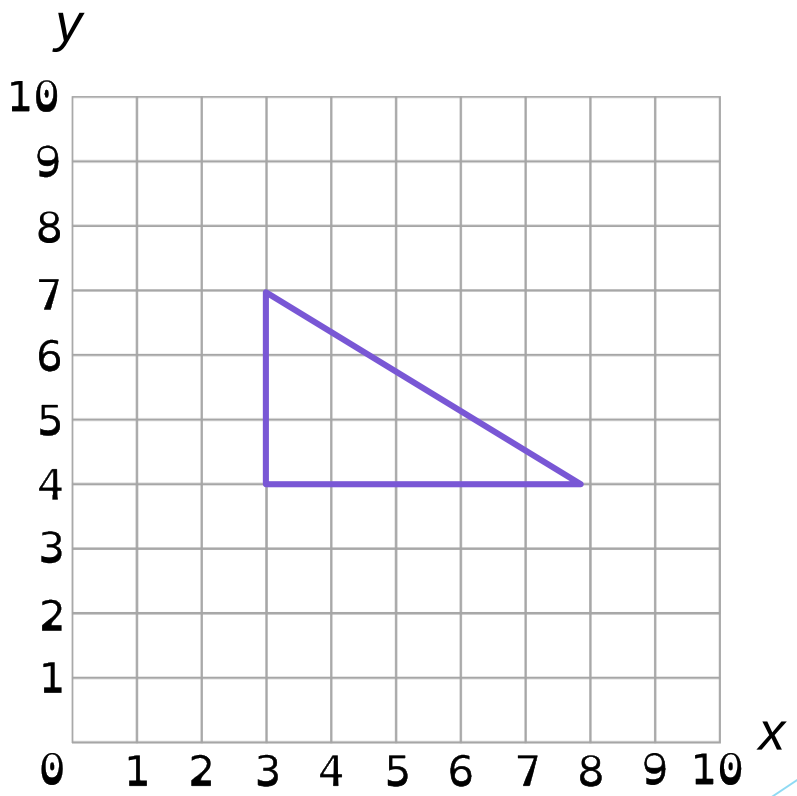
Draw a line through the three points so they are joined together.
Plot two points that match the sequence.



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

What are the coordinates for each of the triangle's vertices below?



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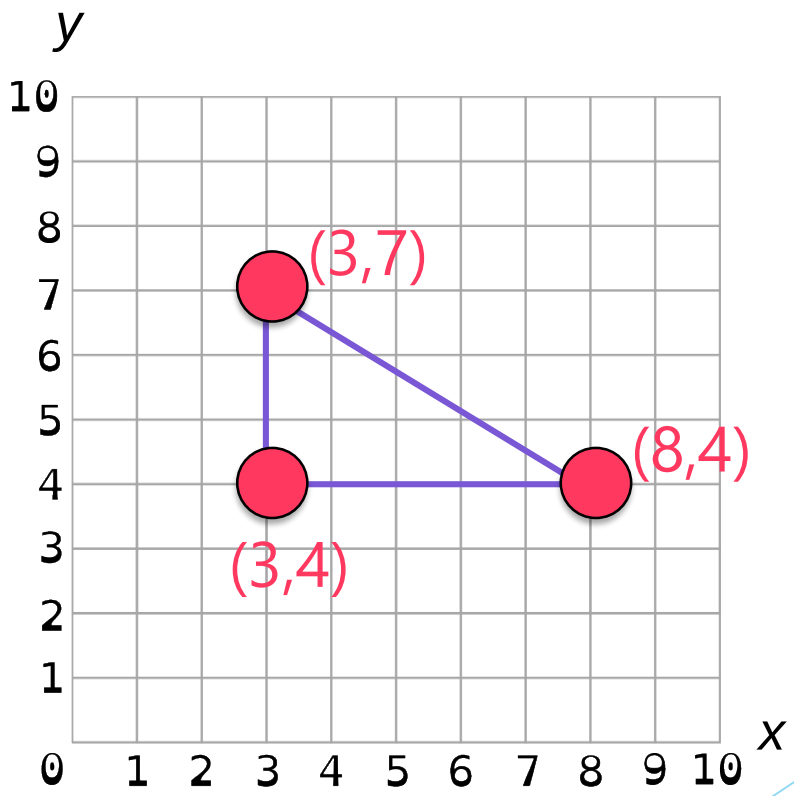
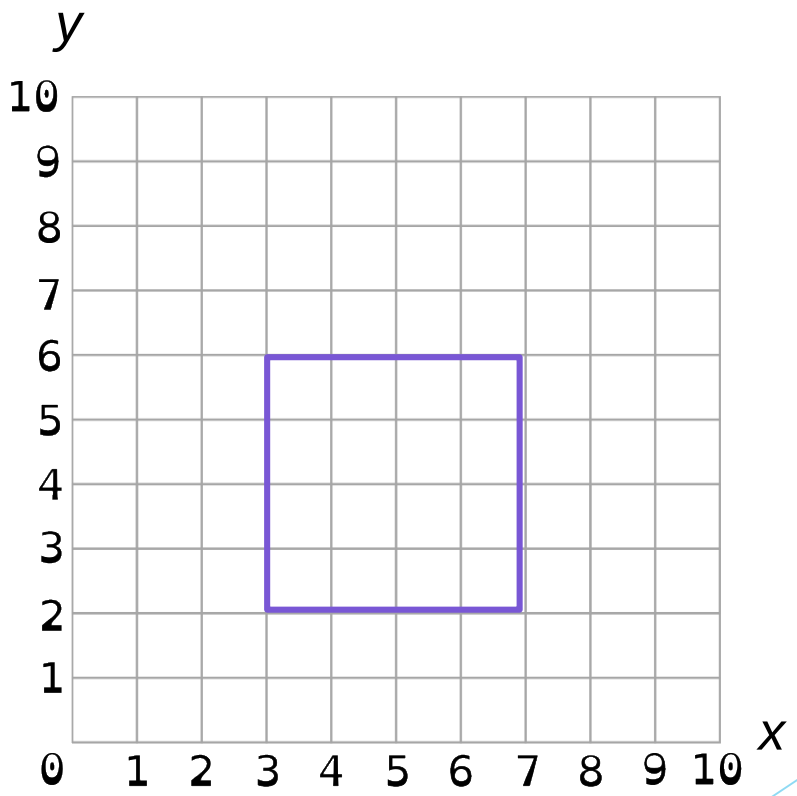


To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

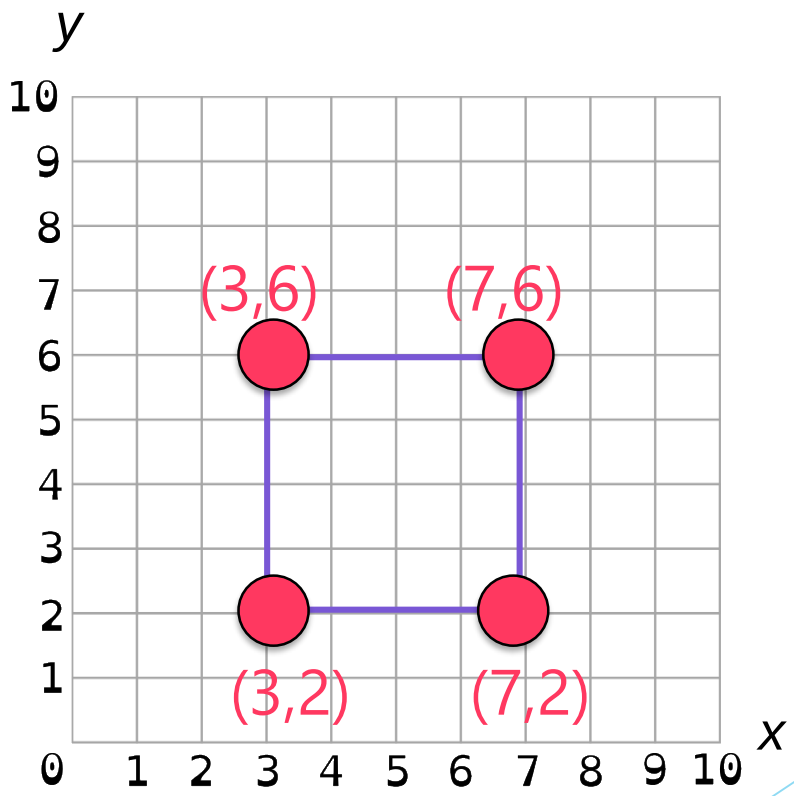
What are the coordinates for each of the square's vertices below?



To be able to draw shapes and plot coordinates in the first quadrant

Talking Time:

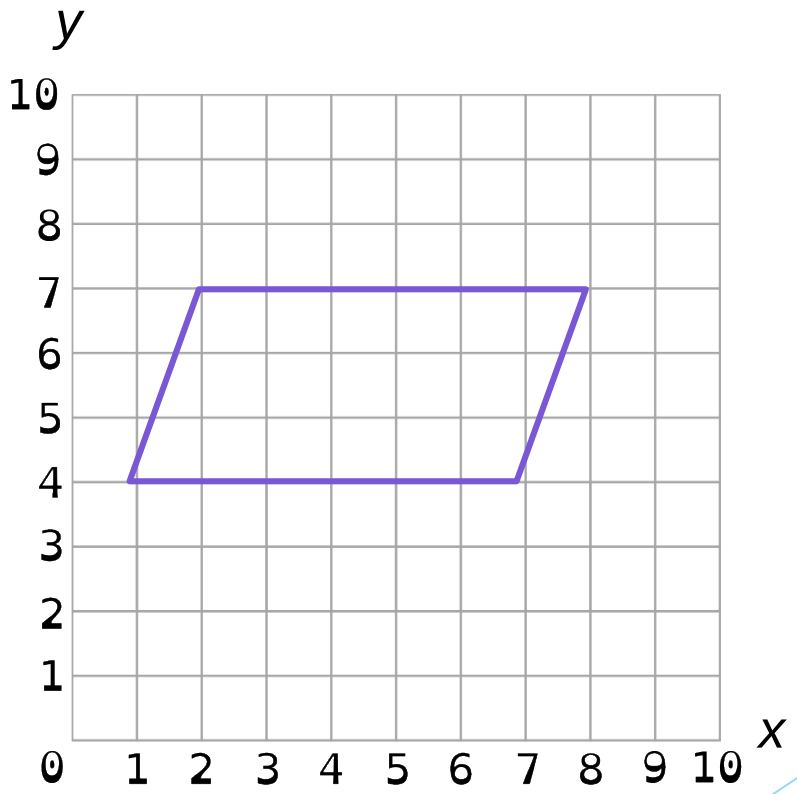
What are the coordinates for each of the square's vertices below?



To be able to draw shapes and plot coordinates in the first quadrant

Activity 3:

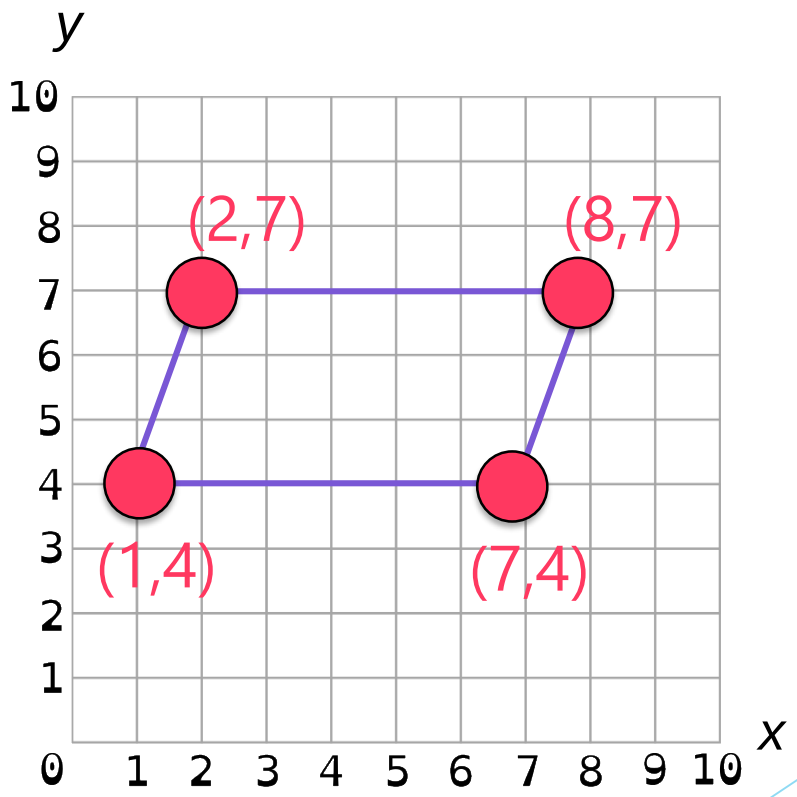
What are the coordinates for each of the parallelogram's vertices below?



To be able to draw shapes and plot coordinates in the first quadrant

Activity 3:

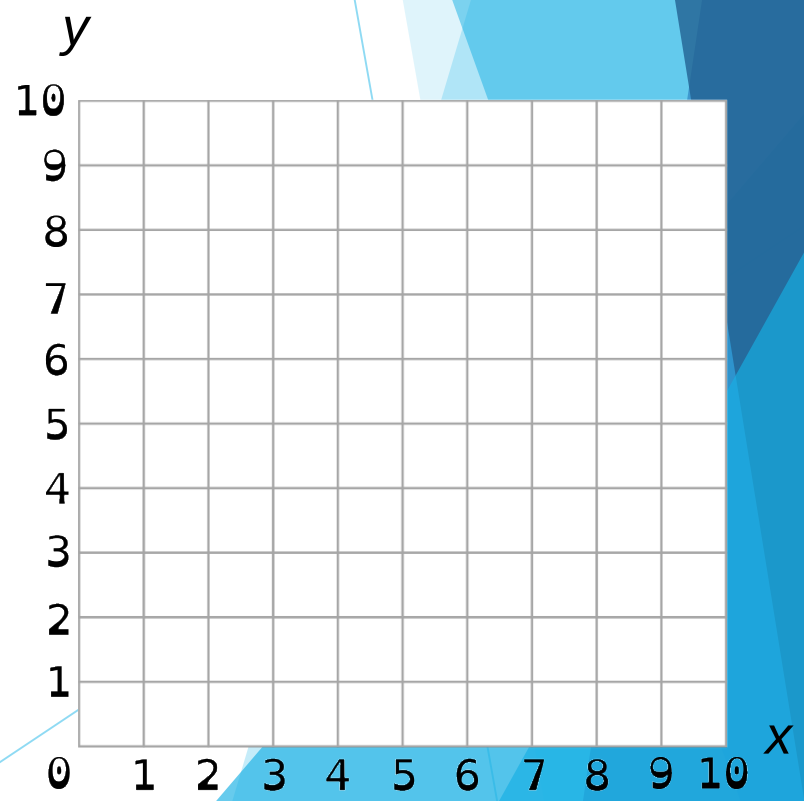
What are the coordinates for each of the parallelogram's vertices below?



To be able to read and plot coordinates in the first quadrant

Activity 4:

Plot the following points, (1,9), (1,6) and (9,6), then figure out the missing fourth point to draw a rectangle.



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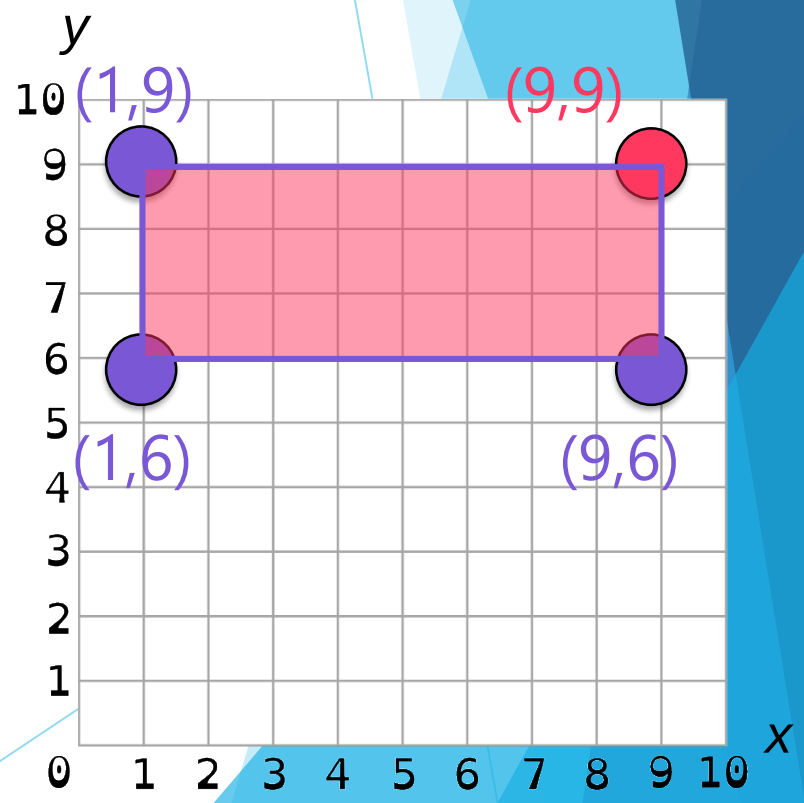


To be able to read and plot coordinates in the first quadrant

Activity 5:

Respond to the following.

a) A rectangle has the coordinates (10,7), (2,7) and (2,10), what will the fourth coordinate be? Is there only one possibility? Explain your answer.

b) A right-angled triangle has the coordinates (5,5) and (3,5), what might the third coordinate be? Is there only one possibility? Explain your answer.

To be able to read and plot coordinates in the first quadrant

Activity 5:

Respond to the following.

a) A rectangle has the coordinates (10,7), (2,7) and (2,10), what will the fourth coordinate be? Is there only one possibility? Explain your answer.
Yes, there is only one possibility, which is (10,10).

b) A right-angled triangle has the coordinates (5,5) and (3,5), what might the third coordinate be? Is there only one possibility? Explain your answer.

To be able to read and plot coordinates in the first quadrant

Activity 5:

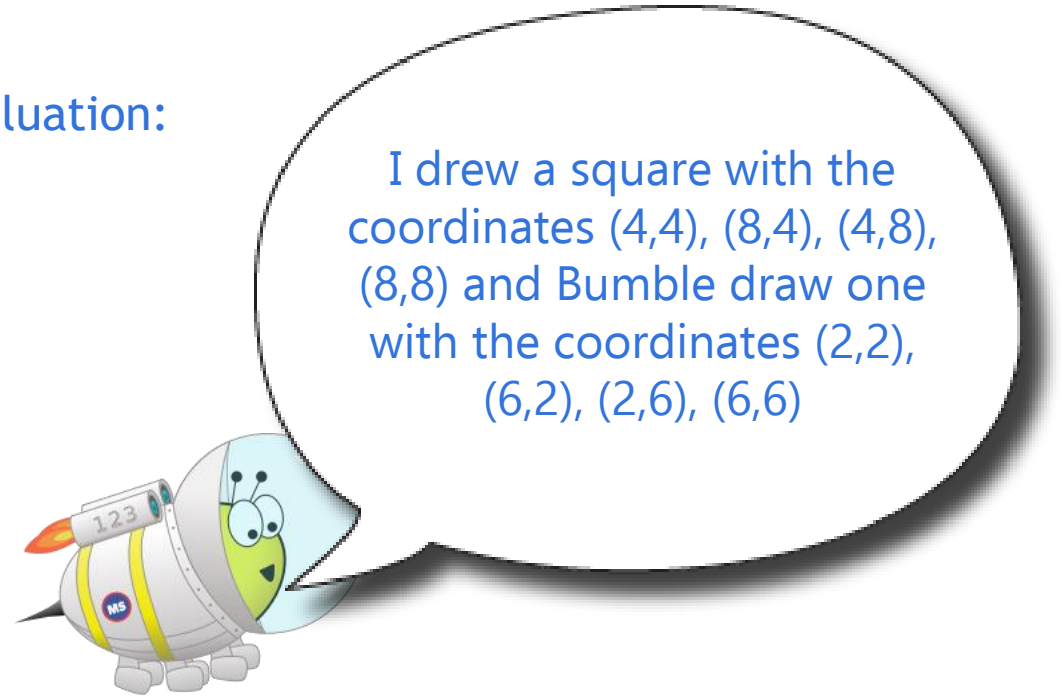
Respond to the following.

a) A rectangle has the coordinates (10,7), (2,7) and (2,10), what will the fourth coordinate be? Is there only one possibility? Explain your answer.
Yes, there is only one possibility, which is (10,10).

b) A right-angled triangle has the coordinates (5,5) and (3,5), what might the third coordinate be? Is there only one possibility? Explain your answer.
There are many possibilities, including (5,0), (5,1), (5,2)… (5,6), (5,7)… and (3,0), (3,1), (3,2)… (3,6), (3,7)…

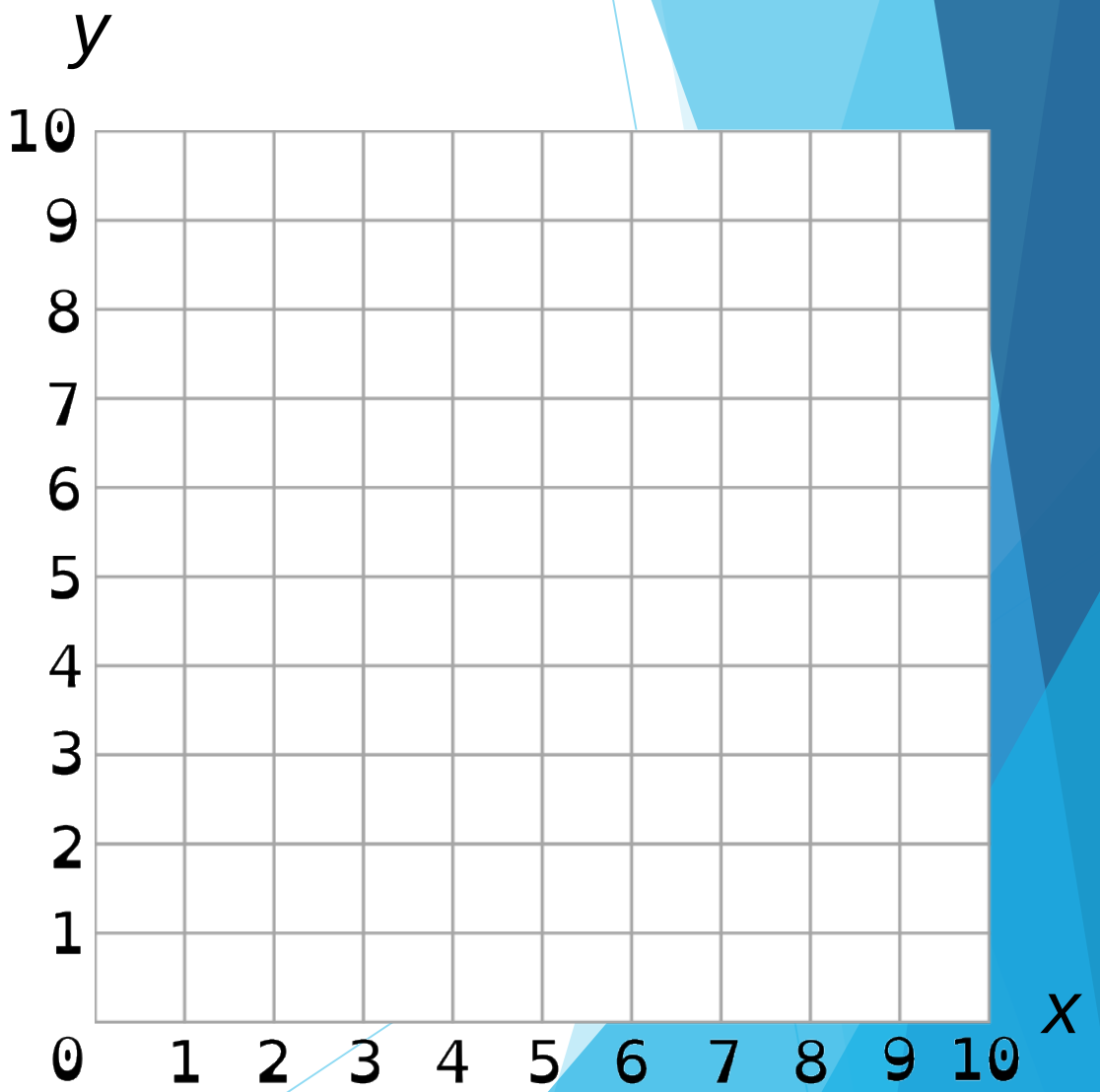
To be able to draw shapes and plot coordinates in the first quadrant

Evaluation:



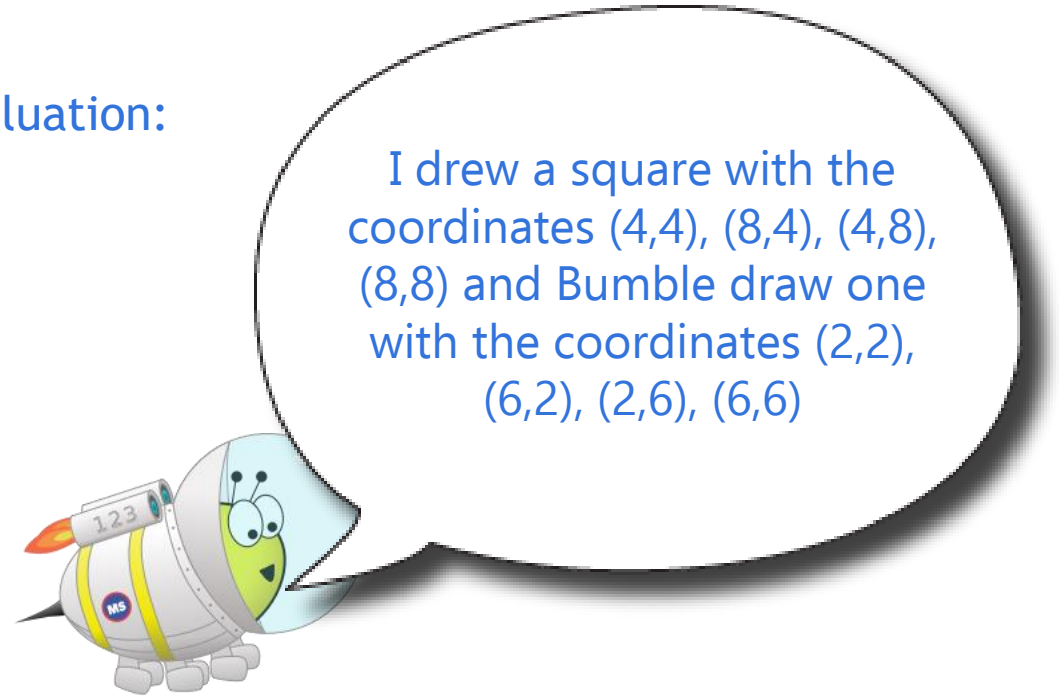
Will their squares overlap?

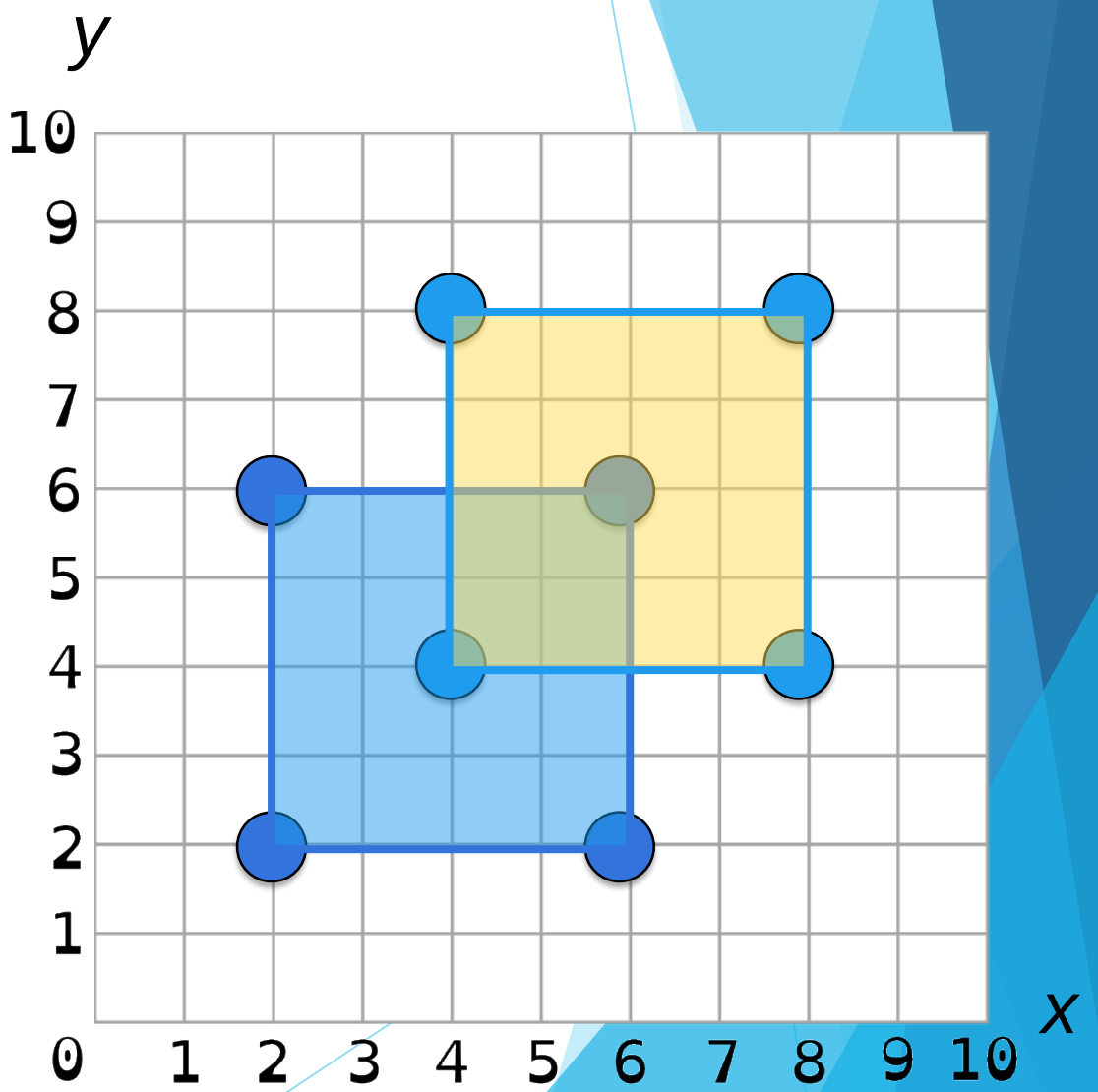
Use the grid to help explain your answer.



To be able to draw shapes and plot coordinates in the first quadrant

Evaluation:





Will their squares overlap?

Use the grid to help explain your answer.