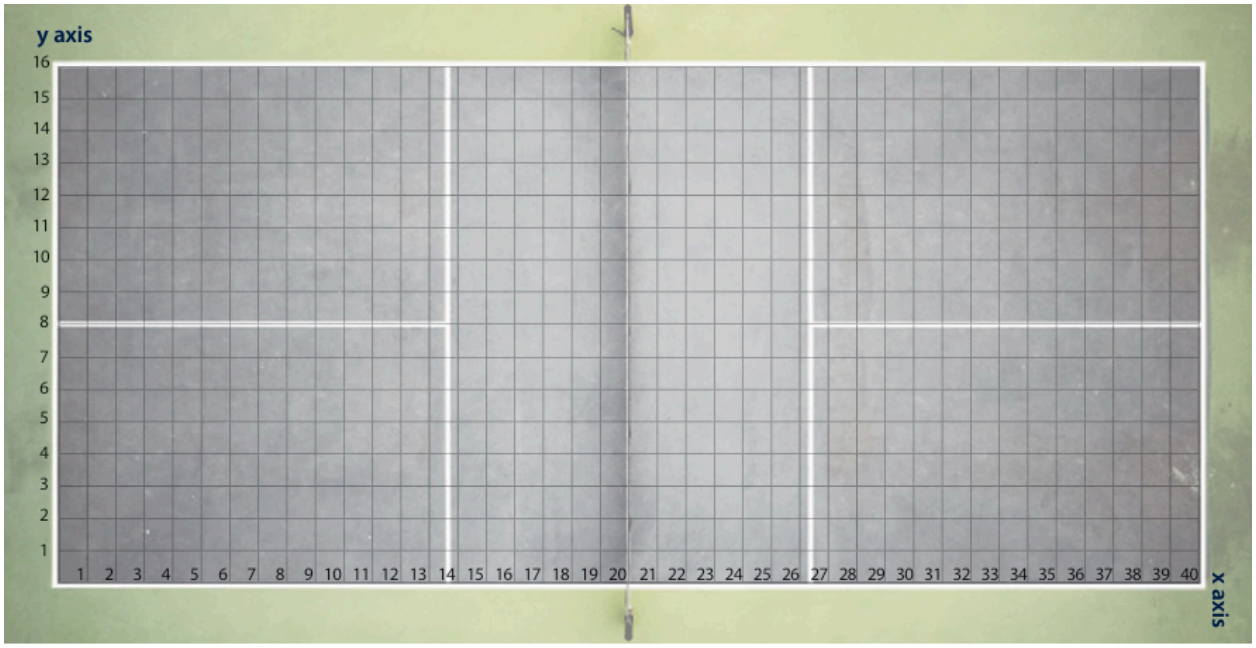
Name:

6.0: Dimensions of the Court

Explore

Use the coordinate plane system to answer/plot the below questions/coordinates.



1) Plot the points (-13, 9) and (-13, -9). Connect the points to draw one of the baselines.
2) Plot the points (13, 9) and (13, -9). Connect the points to draw the other baseline.
3) Connect the points (-13, 9) and (13, 9) to draw the sideline.
4) Connect the points (-13, -9) and (13, -9) to draw the sideline
5) Plot the points (-13, 10) and (13, 10). Draw a rectangle connecting (-13, 9) , (-13,10) , (13,10) , and (13, 9) to draw the additional sideline needed for Doubles Tennis.
6) Plot the points (-13, -10) and (13, -10). Draw a rectangle connecting (-13, -9), (-13, -10), (13, -10), and (13, -9) to draw the additional sideline needed for Doubles Tennis.

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7) Plot the points (0, -10) and (0,10). Connect the points to draw the net.
8) Plot the points (-7, 0), (-7, 9), (0, 9), and (0, 0). Connect the points to draw a rectangular service box.
9) Plot the points (-7, 0) , (-7, -9), (0, -9), and (0, 0). Connect the points to draw a rectangular service box.
10) Plot the points (7, 0), (7, 9), (0, 9), and (0, 0). Connect the points to draw a rectangular service box.
11) Plot the points (7, 0) , (7, -9), (0, -9), and (0, 0). Connect the points to draw a rectangular service box.

Elaborate

Determine the distance the player and ball travels.

1) Player A hits the ball from (-15, -6) to (-15, 8). How far did the ball travel?

2) Player C moves from (14, 7) to (14, -3) to make a play on the ball. How far did player C move?

3) In a doubles match, Player A is standing at (-14, -4) and Player B is standing at (-7, -4). If the ball is hit to (0, -4), which player is the closest to hit the ball?