



Exercise 8A

Question 5:

The given equation is, $2x - 3y = 5$

$$\Rightarrow y = \frac{2x-5}{3}$$

Now, if $x = 4$, then

$$y = \frac{2(4)-5}{3} = \frac{8-5}{3} = 1$$

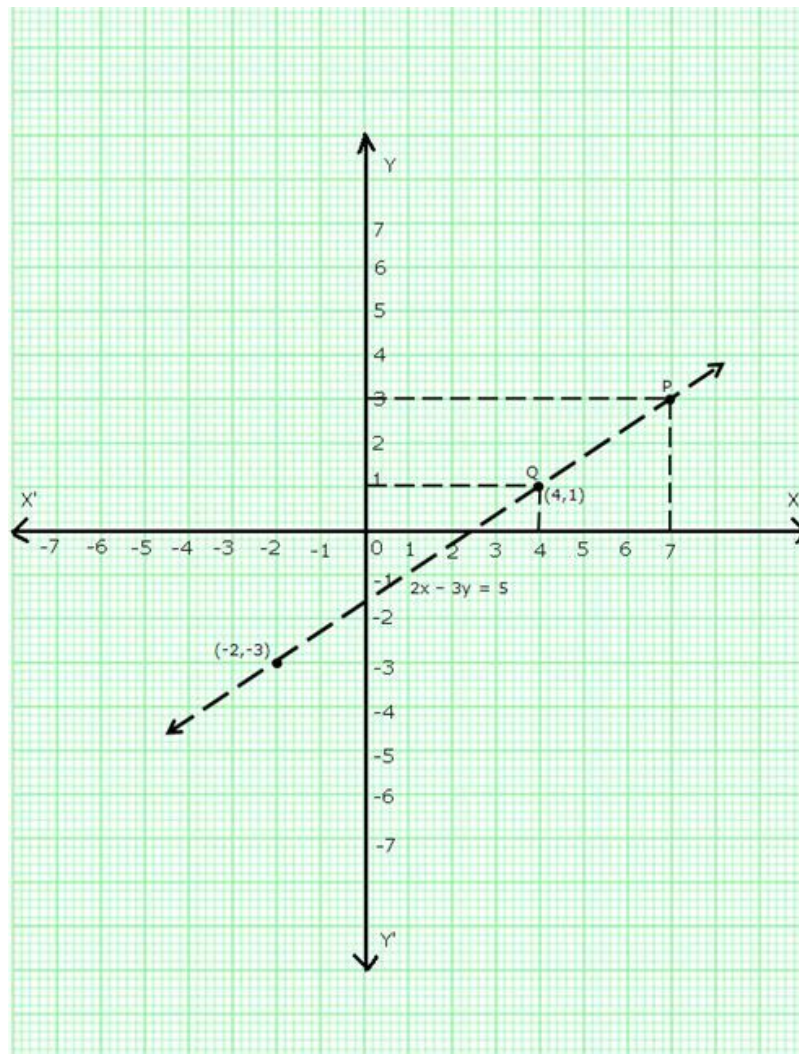
And, if $x = -2$, then

$$y = \frac{2(-2)-5}{3} = \frac{-4-5}{3} = \frac{-9}{3} = -3$$

Thus, we have the following table:

x	4	-2
y	1	-3

Plot points (4,1) and (-2,-3) on a graph paper and join them to get the required graph.



(i) When $x = 4$, draw a line parallel to y-axis at a distance of 4 units from y-axis to its right cutting the line at Q and through Q draw a line parallel to x-axis cutting y-axis which is found to be at a distance of 1 units above x-axis.

Thus, $y = 1$ when $x = 4$.

(ii) When $y = 3$, draw a line parallel to x-axis at a distance of 3 units from x-axis and above it, cutting the line at point P. Through P, draw a line parallel to y-axis meeting x-axis at a point which is found to be 7 units to the right of y axis.

Thus, when $y = 3$, $x = 7$.

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