

NCERT/CBSE MATHEMATICS CLASS 10 textbook(OPTIONAL EXERCISE)

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Answers to NCERT/CBSE MATHEMATICS Class 10(Class XI)textbook OPTIONAL EXERCISE

CHAPTER THREE

LINEAR EQUATIONS IN TWO VARIABLES

EXERCISES

6. Draw the graphs of the equations $5x - y = 5$ and $3x - y = 3$. Determine the co-ordinates of the vertices of the triangle formed by these lines and the y axis.

SOLUTION:

$$5x - y = 5$$

$$\Rightarrow y = 5x - 5$$

x	1	2	0
y	0	5	-5

$$3x - y = 3$$

$$\Rightarrow y = 3x - 3$$

x	0	2	1
y	-3	3	0

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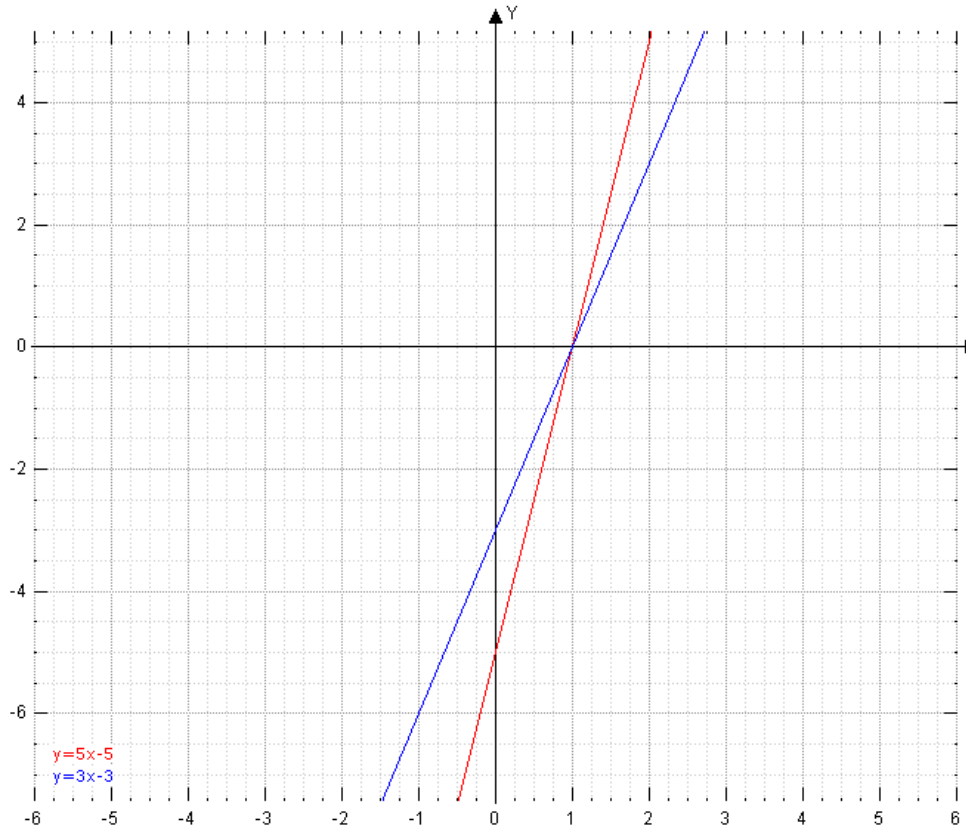
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The points at which the lines $5x - y = 5$ and $3x - y = 3$ meet the y axis are $(0, -5)$ and $(0, -2)$ respectively

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