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[Lesson 3 Homework Practice Variables And Expressions](#)

Exercise 3.5

Question 1:

Which of the following pairs of linear equations has unique solution, no solution or infinitely many solutions? In case there is a unique solution, find it by using cross multiplication method.

$$\begin{aligned} \text{(i)} \quad x - 3y - 3 &= 0 \\ 3x - 9y - 2 &= 0 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad 2x + y &= 5 \\ 3x + 2y &= 8 \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad 3x - 5y &= 20 \\ 6x - 10y &= 40 \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad x - 3y - 7 &= 0 \\ 3x - 3y - 15 &= 0 \end{aligned}$$

Answer:

$$\begin{aligned} \text{(i)} \quad x - 3y - 3 &= 0 \\ 3x - 9y - 2 &= 0 \\ \frac{a_1}{a_2} &= \frac{1}{3}, \quad \frac{b_1}{b_2} = \frac{-3}{-9} = \frac{1}{3}, \quad \frac{c_1}{c_2} = \frac{-3}{-2} = \frac{3}{2} \\ \frac{a_1}{a_2} &= \frac{b_1}{b_2} \neq \frac{c_1}{c_2} \end{aligned}$$

Therefore, the given sets of lines are parallel to each other. Therefore, they will not intersect each other and thus, there will not be any solution for these equations.

$$\begin{aligned} \text{(ii)} \quad 2x + y &= 5 \\ 3x + 2y &= 8 \\ \frac{a_1}{a_2} &= \frac{2}{3}, \quad \frac{b_1}{b_2} = \frac{1}{2}, \quad \frac{c_1}{c_2} = \frac{-5}{-8} \\ \frac{a_1}{a_2} &\neq \frac{b_1}{b_2} \end{aligned}$$

Therefore, they will intersect each other at a unique point and thus, there will be a unique solution for these equations.

By cross-multiplication method,



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