

Linear Inequations Ex 15.2 Q1 Consider the first inequation,

$$x + 3 > 0$$

 $x > -3$... (i)

Consider the second inequation,

$$2x < 14$$

$$x < \frac{14}{2} = 7$$

$$x < 7 \qquad \dots \text{(ii)}$$

From (i) and (ii), (-3,7) is the solution set of the simultaneous equations.

Linear Inequations Ex 15.2 Q2 Consider the first inequation,

Consider the second inequation,

$$\begin{array}{ccc} & 11-5x \leq 1 \\ \Rightarrow & -5x \leq 1-11 \\ \Rightarrow & -5x \leq -10 \\ \Rightarrow & 5x \geq 10 \\ \Rightarrow & x \geq 2 \dots \dots \dots \text{(ii)} \end{array}$$

From (i) and (ii), $(4,\infty)$ is the solution set of the simultaneous equations.

Linear Inequations Ex 15.2 Q3 Consider the first inequation,

$$x-2>0$$

 $x>2$...(i)

Consider the second inequation,

$$3x < 18$$

 $x < 6$... (ii)

From (i) and (ii), (2,6) is the solution set of the simultaneous equations. Linear Inequations Ex $15.2 \, \text{Q4}$

Consider the first inequation,

$$2x + 6 \ge 0$$

$$2x \ge -6$$

$$x \ge \frac{-6}{2}$$

$$x \ge -3$$
 ...(i)

Consider the second inequation,

$$4x - 7 < 0$$

 $4x < 7$
 $x < \frac{7}{4}$... (ii)

From (i) and (ii), $\left[-3, \frac{7}{4}\right]$ is the solution set of the simultaneous equations.

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