Q6. $4x + 3 \ge 2x + 17$, 3x - 5 < -2.

Sol: We have $4x + 3 \ge 2x + 17$

$$\Rightarrow 4x - 2x \ge 17 - 3 \Rightarrow 2x \ge 14$$

$$\Rightarrow x \ge 7$$
(i)

Also, we have 3x - 5 < -2

$$\Rightarrow 3x < -2 + 5 \Rightarrow 3x < 3$$

$$\Rightarrow x < 1$$
 (ii)

From (i) and (ii), no value of x is possible.