

$$\textcircled{A} \quad 3(x-2) - (2x+1) = 0$$

$$3x - 6 - 2x - 1 = 0$$

$$x - 7 = 0$$

$$x = 7$$

$$\textcircled{B} \quad \frac{x}{2} + \frac{x}{3} = 15$$

$$\text{वा, } \frac{3x + 2x}{6} = 15$$

$$\text{वा, } \frac{5x}{6} = 15$$

$$\text{वा, } 5x = 15 \times 6$$

$$\text{वा, } x = \frac{15 \times 6}{5}$$

$$\text{वा, } x = 18$$

$$\textcircled{C} \quad \frac{2x+5}{3x+7} = \frac{3}{4}$$

$$\text{वा, } 9x + 21 = 8x + 20$$

$$\text{वा, } 9x - 8x = 20 - 21$$

$$\text{वा, } x = -1$$

$$\textcircled{D} \quad 5x + 3 = 15 - x$$

$$\text{वा, } 5x + x = 15 - 3$$

$$\text{वा, } 6x = 12$$

$$\text{वा, } x = \frac{12}{6}$$

$$\text{वा, } x = 2$$

$$\textcircled{E} \quad \begin{array}{l} x + 4y = 14 \quad \text{--- (I) } \times 7 \\ 7x - 3y = 5 \quad \text{--- (II) } \times 1 \end{array}$$

$$\begin{array}{r} 7x + 28y = 98 \\ 7x - 3y = 5 \\ \hline - \quad + \quad - \\ \cdot 31y = 93 \end{array}$$

$$y = \frac{93}{31}$$

$$y = 3$$

$\therefore$  (I) नए अक्षरों के लिए मान

$$x + 4y = 14$$

$$\text{वा, } x + 4 \cdot 3 = 14$$

$$\text{वा, } x + 12 = 14$$

$$\text{वा, } x = 14 - 12$$

$$\text{वा, } x = 2$$

$$\textcircled{A} \quad \begin{array}{l} 2x + y = 17 \\ 3x - 2y = 8 \end{array} \quad \begin{array}{l} \textcircled{I} \times 3 \\ \textcircled{II} \times 2 \end{array}$$

$$\begin{array}{r} 6x + 3y = 51 \\ 6x - 4y = 16 \\ \hline \phantom{6x} + \phantom{4y} = 35 \end{array}$$

$$y = \frac{35}{7}$$

$$y = 5$$

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$$2x + y = 17$$

$$2x + 5 = 17$$

$$2x = 17 - 5$$

$$2x = 12$$

$$x = \frac{12}{2}$$

$$x = 6$$