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(A)

$$\frac{1}{x} - \frac{1}{2x} = \frac{1}{16}$$

$$\frac{16}{16 \cdot x} - \frac{8}{16 \cdot x} = \frac{x}{16 \cdot x} \quad | \cdot 16x$$

$$16 - 8 = x$$

$$\underline{8 = x}$$

$$\underline{\underline{L = \{8\}}}$$

(B)

$$\frac{2}{x} - \frac{3}{4x} = \frac{1}{4}$$

$$\frac{8}{4x} - \frac{3}{4x} = \frac{x}{4x} \quad | \cdot 4x$$

$$8 - 3 = x$$

$$\underline{5 = x}$$

$$\underline{\underline{L = \{5\}}}$$

(C)

$$\frac{2}{3x} + \frac{7}{12x} = \frac{1}{4}$$

$$\frac{8}{12x} + \frac{7}{12x} = \frac{3x}{12x} \quad | \cdot 12x$$

$$8 + 7 = 3x$$

$$15 = 3x \quad | : 3$$

$$\underline{5 = x}$$

$$\underline{\underline{L = \{5\}}}$$

(D)

$$\frac{3}{10x} + \frac{3}{5x} = \frac{9}{2}$$

$$\frac{3}{10x} + \frac{6}{10x} = \frac{45x}{10x} \quad | \cdot 10x$$

$$3 + 6 = 45x$$

$$9 = 45x \quad | : 45$$

$$\frac{9}{45} = x$$

$$x = \frac{1}{5}$$

$$\underline{L = \left\{ \frac{1}{5} \right\}}$$