

Algebra Solve equation quickly

$$1) \quad 3x + 5 = 17$$

$$\quad \quad -5 \quad -5$$

$$\Rightarrow 3x - 5 = 17$$

$$3x = 17 - 5$$

$$3x = 12$$

$$x = \frac{12}{3} = 4 \quad \boxed{x=4}$$

another way

$$\Rightarrow 3x + 5 = 17$$

$$\quad \quad -5 \quad -5$$

$$\frac{3x}{3} = \frac{12}{3}$$

$$x = 4$$

$$\left\{ \begin{array}{l} + \rightarrow - \\ \div \rightarrow \times \\ \times \rightarrow \div \\ - \rightarrow + \end{array} \right.$$

$$2) \quad 4x + 3 = 19$$

$$\quad \quad -3 \quad -3$$

$$\frac{4x}{4} = \frac{16}{4}$$

$$\boxed{x=4}$$

$$3) \quad +17 - 5x = 2$$

$$\quad \quad -17 \quad -17$$

$$\frac{-5x}{-5} = \frac{-15}{-5}$$

$$\boxed{x=3}$$

$$4) \quad 9 = 3 + x$$

$$\quad \quad -3 \quad -3$$

$$6 = x \quad \Rightarrow \quad x = 6$$

$$4.6 = \frac{x}{4}$$

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