

数学科 方程式マスター D-⑤

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次の x についての方程式を解きなさい。

① $3x - (x + 38) = 4(1 - x)$

⑤ $80x + 30(11 - x) = 630$

② $3(2x + 7) + 5(x - 9) = 20$

⑥ $5x = 21 - 4(x + 6)$

③ $6x - 2(x - 4) = 5x + 1$

⑦ $2x + 6(x + 1) = 16$

④ $5(x + 14) = 3(2x + 23)$

次の x についての方程式を解きなさい。

① $3x - (x + 38) = 4(1 - x)$

$$3x - x - 38 = 4 - 4x$$

$$2x - 38 = 4 - 4x$$

$$2x + 4x = 4 + 38$$

$$6x = 42$$

$$6x \div 6 = 42 \div 6$$

$$x = 7 \#$$

② $3(2x + 7) + 5(x - 9) = 20$

$$6x + 21 + 5x - 45 = 20$$

$$11x - 24 = 20$$

$$11x = 20 + 24$$

$$11x = 44$$

$$11x \div 11 = 44 \div 11$$

$$x = 4 \#$$

③ $6x - 2(x - 4) = 5x + 1$

$$6x - 2x + 8 = 5x + 1$$

$$4x + 8 = 5x + 1$$

$$4x - 5x = -8 + 1$$

$$-x = -7$$

$$x = 7 \#$$

④ $5(x + 14) = 3(2x + 23)$

$$5x + 70 = 6x + 69$$

$$5x - 6x = -70 + 69$$

$$-x = -1$$

$$x = 1 \#$$

⑤ $80x + 30(11 - x) = 630$

$$80x + 330 - 30x = 630$$

$$50x + 330 = 630$$

$$50x = 630 - 330$$

$$50x = 300$$

$$50x \div 50 = 300 \div 50$$

$$x = 6 \#$$

⑥ $5x = 21 - 4(x + 6)$

$$5x = 21 - 4x - 24$$

$$5x = -3 - 4x$$

$$5x + 4x = -3$$

$$9x = -3$$

$$9x \div 9 = -3 \div 9$$

$$x = -\frac{3}{9}$$

$$x = -\frac{1}{3} \#$$

⑦ $2x + 6(x + 1) = 16$

$$2x + 6x + 6 = 16$$

$$8x + 6 = 16$$

$$8x = 16 - 6$$

$$8x = 10$$

$$8x \div 8 = 10 \div 8$$

$$x = \frac{10}{8}$$

$$x = \frac{5}{4} \#$$