

1 次の比例式を解きなさい。

① $(x+3) : 50 = 1 : 5$

② $1 : (x-6) = 6 : 18$

③ $3 : 7 = (x+5) : 28$

④ $8 : 2 = 56 : (x+6)$

⑤ $(x-2) : 14 = 4 : 8$

⑥ $4 : (x+4) = 8 : 16$

⑦ $33 : 12 = (x+5) : 4$

⑧ $9 : 3 = 6 : (x-5)$

1 次の比例式を解きなさい。

$$\textcircled{1} \quad (x+3) : 50 = 1 : 5$$

$$(x+3) \times 5 = 50 \times 1$$

$$5x + 15 = 50$$

$$5x = 50 - 15$$

$$5x = 35$$

$$x = 7$$

$$\textcircled{2} \quad 1 : (x-6) = 6 : 18$$

$$1 \times 18 = (x-6) \times 6$$

$$18 = 6x - 36$$

$$6x = 18 + 36$$

$$6x = 54$$

$$x = 9$$

$$\textcircled{3} \quad 3 : 7 = (x+5) : 28$$

$$3 \times 28 = 7 \times (x+5)$$

$$84 = 7x + 35$$

$$7x = 84 - 35$$

$$7x = 49$$

$$x = 7$$

$$\textcircled{4} \quad 8 : 2 = 56 : (x+6)$$

$$8 \times (x+6) = 2 \times 56$$

$$8x + 48 = 112$$

$$8x = 112 - 48$$

$$8x = 64$$

$$x = 8$$

$$\textcircled{5} \quad (x-2) : 14 = 4 : 8$$

$$(x-2) \times 8 = 14 \times 4$$

$$8x - 16 = 56$$

$$8x = 56 + 16$$

$$8x = 72$$

$$x = 9$$

$$\textcircled{6} \quad 4 : (x+4) = 8 : 16$$

$$4 \times 16 = (x+4) \times 8$$

$$64 = 8x + 32$$

$$8x = 64 - 32$$

$$8x = 32$$

$$x = 4$$

$$\textcircled{7} \quad 33 : 12 = (x+5) : 4$$

$$33 \times 4 = 12 \times (x+5)$$

$$132 = 12x + 60$$

$$12x = 132 - 60$$

$$12x = 72$$

$$x = 6$$

$$\textcircled{8} \quad 9 : 3 = 6 : (x-5)$$

$$9 \times (x-5) = 3 \times 6$$

$$9x - 45 = 18$$

$$9x = 18 + 45$$

$$9x = 63$$

$$x = 7$$