

1 次の比例式を解きなさい。

①  $(x+9) : 63 = 2 : 7$

②  $6 : (x-2) = 8 : 4$

③  $15 : 6 = (x+6) : 4$

④  $8 : 24 = 5 : (x+9)$

⑤  $(x+8) : 6 = 20 : 8$

⑥  $42 : (x+2) = 12 : 2$

⑦  $6 : 12 = (x+3) : 14$

⑧  $7 : 3 = 21 : (x+2)$

1 次の比例式を解きなさい。

$$\textcircled{1} \quad (x+9) : 63 = 2 : 7$$

$$(x+9) \times 7 = 63 \times 2$$

$$7x + 63 = 126$$

$$7x = 126 - 63$$

$$7x = 63$$

$$x = 9$$

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

$$6 \times 4 = (x-2) \times 8$$

$$24 = 8x - 16$$

$$8x = 24 + 16$$

$$8x = 40$$

$$x = 5$$

$$\textcircled{3} \quad 15 : 6 = (x+6) : 4$$

$$15 \times 4 = 6 \times (x+6)$$

$$60 = 6x + 36$$

$$6x = 60 - 36$$

$$6x = 24$$

$$x = 4$$

$$\textcircled{4} \quad 8 : 24 = 5 : (x+9)$$

$$8 \times (x+9) = 24 \times 5$$

$$8x + 72 = 120$$

$$8x = 120 - 72$$

$$8x = 48$$

$$x = 6$$

$$\textcircled{5} \quad (x+8) : 6 = 20 : 8$$

$$(x+8) \times 8 = 6 \times 20$$

$$8x + 64 = 120$$

$$8x = 120 - 64$$

$$8x = 56$$

$$x = 7$$

$$\textcircled{6} \quad 42 : (x+2) = 12 : 2$$

$$42 \times 2 = (x+2) \times 12$$

$$84 = 12x + 24$$

$$12x = 84 - 24$$

$$12x = 60$$

$$x = 5$$

$$\textcircled{7} \quad 6 : 12 = (x+3) : 14$$

$$6 \times 14 = 12 \times (x+3)$$

$$84 = 12x + 36$$

$$12x = 84 - 36$$

$$12x = 48$$

$$x = 4$$

$$\textcircled{8} \quad 7 : 3 = 21 : (x+2)$$

$$7 \times (x+2) = 3 \times 21$$

$$7x + 14 = 63$$

$$7x = 63 - 14$$

$$7x = 49$$

$$x = 7$$