

○次の二次方程式を解きなさい。答えは右側の解答欄に記入すること。

- (1)  $x^2 = 49$

(2)  $5x^2 = 80$
- (3)  $2x^2 - 30 = 0$

(4)  $(x - 3)^2 = 11$
- (5)  $(x + 1)^2 - 48 = 0$

(6)  $(x - 3)^2 - 27 = 0$
- (7)  $(x - 5)^2 = 1$

(8)  $(2x - 7)(x + 4) = 0$
- (9)  $x^2 - 9x + 14 = 0$

(10)  $x^2 + 7x = -6$
- (11)  $8x^2 + 12x = 0$

(12)  $x^2 = 9x$

|    |       |
|----|-------|
| 1  | $x =$ |
| 2  | $x =$ |
| 3  | $x =$ |
| 4  | $x =$ |
| 5  | $x =$ |
| 6  | $x =$ |
| 7  | $x =$ |
| 8  | $x =$ |
| 9  | $x =$ |
| 10 | $x =$ |
| 11 | $x =$ |
| 12 | $x =$ |

- (13)  $x^2 + 16x + 64 = 0$

(14)  $3x^2 + 3x - 4 = 0$
- (15)  $4x^2 + 4x - 2 = 0$

(16)  $6x^2 + x - 1 = 0$
- (17)  $2x^2 - 8x = 154$

(18)  $x(x - 6) = -9$
- (19)  $7x^2 = 6x - 1$

(20)  $(2x - 3)(x - 2) = 36$
- (21)  $(x + 4)^2 - (2x + 7) = 0$

(22)  $x(x - 6) = 2$
- (23)  $(x + 2)(x - 3) = 2(x^2 - 3)$

(24)  $(x - 3)^2 + 5(x - 3) - 6 = 0$
- (25)  $(x - 1)(x + 5) = 4(x^2 - 1)$

|    |       |
|----|-------|
| 13 | $x =$ |
| 14 | $x =$ |
| 15 | $x =$ |
| 16 | $x =$ |
| 17 | $x =$ |
| 18 | $x =$ |
| 19 | $x =$ |
| 20 | $x =$ |
| 21 | $x =$ |
| 22 | $x =$ |
| 23 | $x =$ |
| 24 | $x =$ |
| 25 | $x =$ |

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|    |                        |
|----|------------------------|
| 1  | $x = \pm 7$            |
| 2  | $x = \pm 4$            |
| 3  | $x = \pm \sqrt{15}$    |
| 4  | $x = 3 \pm \sqrt{11}$  |
| 5  | $x = -1 \pm 4\sqrt{3}$ |
| 6  | $x = 3 \pm 3\sqrt{3}$  |
| 7  | $x = 6, 4$             |
| 8  | $x = \frac{7}{2}, -4$  |
| 9  | $x = 7, 2$             |
| 10 | $x = -1, -6$           |
| 11 | $x = 0, -\frac{3}{2}$  |
| 12 | $x = 0, 9$             |

- (13)  $x^2 + 16x + 64 = 0$

(14)  $3x^2 + 3x - 4 = 0$
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- (25)  $(x - 1)(x + 5) = 4(x^2 - 1)$

|    |                                  |
|----|----------------------------------|
| 13 | $x = -8$                         |
| 14 | $x = \frac{-3 \pm \sqrt{57}}{6}$ |
| 15 | $x = \frac{-1 \pm \sqrt{3}}{2}$  |
| 16 | $x = \frac{1}{3}, -\frac{1}{2}$  |
| 17 | $x = 11, -7$                     |
| 18 | $x = 3$                          |
| 19 | $x = \frac{3 \pm \sqrt{2}}{7}$   |
| 20 | $x = 6, -\frac{5}{2}$            |
| 21 | $x = -3$                         |
| 22 | $x = 3 \pm \sqrt{11}$            |
| 23 | $x = 0, -1$                      |
| 24 | $x = -3, 4$                      |
| 25 | $x = 1, \frac{1}{3}$             |