

○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) $x^2 = 36$

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

(4) $(x - 2)^2 = 7$
- (5) $(x + 4)^2 - 12 = 0$

(6) $(x - 3)^2 - 16 = 0$
- (7) $(x - 3)(x + 4) = 0$

(8) $x^2 - 6x + 5 = 0$
- (9) $x^2 - x - 12 = 0$

(10) $x^2 + 8x = 0$
- (11) $2x^2 = 5x$

(12) $x^2 - 8x + 16 = 0$

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) $2x^2 - 3x - 2 = 0$

(14) $x^2 + 10x + 7 = 0$
- (15) $3x^2 - x - 1 = 0$

(16) $x(6 - x) = -16$
- (17) $x^2 = 2x + 24$

(18) $x^2 - 8 = 4x$
- (19) $2(x^2 + x + 1) = -3x$

(20) $x(x - 4) = 5(x - 4)$
- (21) $x(x - 6) = 3x - 12$

(22) $(x - 7)(x - 4) = 18$
- (23) $(x + 4)(x - 3) = 2(x^2 - 6)$

(24) $3(x - 6)(x - 2) = 96$
- (25) $2x(x - 4) - 11 = (x - 1)^2$

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

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(24) $3(x - 6)(x - 2) = 96$
- (25) $2x(x - 4) - 11 = (x - 1)^2$

13	$x = -\frac{1}{2}, 2$
14	$x = -5 \pm 3\sqrt{2}$
15	$x = \frac{1 \pm \sqrt{13}}{6}$
16	$x = -2, 8$
17	$x = -4, 6$
18	$x = 2 \pm 2\sqrt{3}$
19	$x = -\frac{1}{2}, -2$
20	$x = 4, 5$
21	$x = \frac{9 \pm \sqrt{33}}{2}$
22	$x = 1, 10$
23	$x = 0, 1$
24	$x = -2, 10$
25	$x = 3 \pm \sqrt{21}$