

2 次方程式 01-1

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 81$

(2) $x^2 = 27$

(3) $a^2 = 100$

(4) $a^2 - 36 = 0$

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

(6) $(x + 2)^2 = 7$

(7) $(x - 5)^2 = 3$

(8) $(x - 4)^2 - 2 = 0$

(9) $(x - 6)^2 - 21 = 0$

(10) $3(x - 5)^2 = 63$

(11) $3(x - 2)^2 = 42$

(12) $3(x + 4)^2 - 15 = 0$

(13) $5(x + 2)^2 - 10 = 0$

2 次方程式 01-1

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 81$

$$a = \pm 9$$

(2) $x^2 = 27$

$$x = \pm 3\sqrt{3}$$

(3) $a^2 = 100$

$$a = \pm 10$$

(4) $a^2 - 36 = 0$

$$a = \pm 6$$

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

$$x = \pm 2$$

(6) $(x + 2)^2 = 7$

$$x = -2 \pm \sqrt{7}$$

(7) $(x - 5)^2 = 3$

$$x = 5 \pm \sqrt{3}$$

(8) $(x - 4)^2 - 2 = 0$

$$x = 4 \pm \sqrt{2}$$

(9) $(x - 6)^2 - 21 = 0$

$$x = 6 \pm \sqrt{21}$$

(10) $3(x - 5)^2 = 63$

$$x = 5 \pm \sqrt{21}$$

(11) $3(x - 2)^2 = 42$

$$x = 2 \pm \sqrt{14}$$

(12) $3(x + 4)^2 - 15 = 0$

$$x = -4 \pm \sqrt{5}$$

(13) $5(x + 2)^2 - 10 = 0$

$$x = -2 \pm \sqrt{2}$$

2 次方程式 01-2

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 100$

(2) $a^2 = 9$

(3) $x^2 = 64$

(4) $x^2 - 2 = 0$

(5) $x^2 - 9 = 0$

(6) $(x + 4)^2 = 15$

(7) $(x - 1)^2 = 35$

(8) $(x - 6)^2 - 3 = 0$

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

(10) $2(x + 4)^2 = 46$

(11) $2(x + 1)^2 = 14$

(12) $3(x - 4)^2 - 9 = 0$

(13) $5(x - 1)^2 - 10 = 0$

2 次方程式 01-2

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 100$

$$x = \pm 10$$

(2) $a^2 = 9$

$$a = \pm 3$$

(3) $x^2 = 64$

$$x = \pm 8$$

(4) $x^2 - 2 = 0$

$$x = \pm \sqrt{2}$$

(5) $x^2 - 9 = 0$

$$x = \pm 3$$

(6) $(x + 4)^2 = 15$

$$x = -4 \pm \sqrt{15}$$

(7) $(x - 1)^2 = 35$

$$x = 1 \pm \sqrt{35}$$

(8) $(x - 6)^2 - 3 = 0$

$$x = 6 \pm \sqrt{3}$$

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

$$x = -6 \pm \sqrt{2}$$

(10) $2(x + 4)^2 = 46$

$$x = -4 \pm \sqrt{23}$$

(11) $2(x + 1)^2 = 14$

$$x = -1 \pm \sqrt{7}$$

(12) $3(x - 4)^2 - 9 = 0$

$$x = 4 \pm \sqrt{3}$$

(13) $5(x - 1)^2 - 10 = 0$

$$x = 1 \pm \sqrt{2}$$

2 次方程式 01-3

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 21$

(2) $x^2 = 17$

(3) $x^2 = 49$

(4) $x^2 - 10 = 0$

(5) $a^2 - 25 = 0$

(6) $(x - 1)^2 = 2$

(7) $(x + 3)^2 = 6$

(8) $(x - 1)^2 - 45 = 0$

(9) $(x - 5)^2 - 31 = 0$

(10) $4(x - 4)^2 = 48$

(11) $4(x + 6)^2 = 96$

(12) $5(x - 5)^2 - 25 = 0$

(13) $5(x + 5)^2 - 55 = 0$

2 次方程式 01-3

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 21$

$$x = \pm\sqrt{21}$$

(2) $x^2 = 17$

$$x = \pm\sqrt{17}$$

(3) $x^2 = 49$

$$x = \pm 7$$

(4) $x^2 - 10 = 0$

$$x = \pm\sqrt{10}$$

(5) $a^2 - 25 = 0$

$$a = \pm 5$$

(6) $(x - 1)^2 = 2$

$$x = 1 \pm \sqrt{2}$$

(7) $(x + 3)^2 = 6$

$$x = -3 \pm \sqrt{6}$$

(8) $(x - 1)^2 - 45 = 0$

$$x = 1 \pm 3\sqrt{5}$$

(9) $(x - 5)^2 - 31 = 0$

$$x = 5 \pm \sqrt{31}$$

(10) $4(x - 4)^2 = 48$

$$x = 4 \pm 2\sqrt{3}$$

(11) $4(x + 6)^2 = 96$

$$x = -6 \pm 2\sqrt{6}$$

(12) $5(x - 5)^2 - 25 = 0$

$$x = 5 \pm \sqrt{5}$$

(13) $5(x + 5)^2 - 55 = 0$

$$x = -5 \pm \sqrt{11}$$

2 次方程式 01-4

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 100$

(2) $x^2 = 81$

(3) $x^2 = 16$

(4) $x^2 - 9 = 0$

(5) $a^2 - 14 = 0$

(6) $(x - 3)^2 = 47$

(7) $(x + 1)^2 = 38$

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

(9) $(x + 5)^2 - 3 = 0$

(10) $2(x - 3)^2 = 6$

(11) $3(x + 5)^2 = 42$

(12) $4(x + 6)^2 - 12 = 0$

(13) $2(x - 5)^2 - 42 = 0$

2 次方程式 01-4

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 100$

$$x = \pm 10$$

(2) $x^2 = 81$

$$x = \pm 9$$

(3) $x^2 = 16$

$$x = \pm 4$$

(4) $x^2 - 9 = 0$

$$x = \pm 3$$

(5) $a^2 - 14 = 0$

$$a = \pm \sqrt{14}$$

(6) $(x - 3)^2 = 47$

$$x = 3 \pm \sqrt{47}$$

(7) $(x + 1)^2 = 38$

$$x = -1 \pm \sqrt{38}$$

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

$$x = -2 \pm 2\sqrt{2}$$

(9) $(x + 5)^2 - 3 = 0$

$$x = -5 \pm \sqrt{3}$$

(10) $2(x - 3)^2 = 6$

$$x = 3 \pm \sqrt{3}$$

(11) $3(x + 5)^2 = 42$

$$x = -5 \pm \sqrt{14}$$

(12) $4(x + 6)^2 - 12 = 0$

$$x = -6 \pm \sqrt{3}$$

(13) $2(x - 5)^2 - 42 = 0$

$$x = 5 \pm \sqrt{21}$$

2 次方程式 01-5

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 22$

(2) $a^2 = 30$

(3) $x^2 = 49$

(4) $a^2 - 25 = 0$

(5) $x^2 - 11 = 0$

(6) $(x + 4)^2 = 7$

(7) $(x + 3)^2 = 3$

(8) $(x + 2)^2 - 23 = 0$

(9) $(x - 4)^2 - 28 = 0$

(10) $3(x - 3)^2 = 18$

(11) $2(x - 4)^2 = 46$

(12) $2(x + 3)^2 - 44 = 0$

(13) $5(x - 2)^2 - 25 = 0$

2 次方程式 01-5

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 22$

$$a = \pm\sqrt{22}$$

(2) $a^2 = 30$

$$a = \pm\sqrt{30}$$

(3) $x^2 = 49$

$$x = \pm 7$$

(4) $a^2 - 25 = 0$

$$a = \pm 5$$

(5) $x^2 - 11 = 0$

$$x = \pm\sqrt{11}$$

(6) $(x + 4)^2 = 7$

$$x = -4 \pm \sqrt{7}$$

(7) $(x + 3)^2 = 3$

$$x = -3 \pm \sqrt{3}$$

(8) $(x + 2)^2 - 23 = 0$

$$x = -2 \pm \sqrt{23}$$

(9) $(x - 4)^2 - 28 = 0$

$$x = 4 \pm 2\sqrt{7}$$

(10) $3(x - 3)^2 = 18$

$$x = 3 \pm \sqrt{6}$$

(11) $2(x - 4)^2 = 46$

$$x = 4 \pm \sqrt{23}$$

(12) $2(x + 3)^2 - 44 = 0$

$$x = -3 \pm \sqrt{22}$$

(13) $5(x - 2)^2 - 25 = 0$

$$x = 2 \pm \sqrt{5}$$

2 次方程式 01-6

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 3$

(2) $a^2 = 16$

(3) $x^2 = 81$

(4) $a^2 - 19 = 0$

(5) $x^2 - 11 = 0$

(6) $(x + 4)^2 = 6$

(7) $(x + 3)^2 = 28$

(8) $(x + 4)^2 - 23 = 0$

(9) $(x - 2)^2 - 8 = 0$

(10) $4(x - 3)^2 = 24$

(11) $2(x - 6)^2 = 28$

(12) $4(x - 3)^2 - 8 = 0$

(13) $5(x - 5)^2 - 60 = 0$

2 次方程式 01-6

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 3$

$$x = \pm\sqrt{3}$$

(2) $a^2 = 16$

$$a = \pm 4$$

(3) $x^2 = 81$

$$x = \pm 9$$

(4) $a^2 - 19 = 0$

$$a = \pm\sqrt{19}$$

(5) $x^2 - 11 = 0$

$$x = \pm\sqrt{11}$$

(6) $(x + 4)^2 = 6$

$$x = -4 \pm \sqrt{6}$$

(7) $(x + 3)^2 = 28$

$$x = -3 \pm 2\sqrt{7}$$

(8) $(x + 4)^2 - 23 = 0$

$$x = -4 \pm \sqrt{23}$$

(9) $(x - 2)^2 - 8 = 0$

$$x = 2 \pm 2\sqrt{2}$$

(10) $4(x - 3)^2 = 24$

$$x = 3 \pm \sqrt{6}$$

(11) $2(x - 6)^2 = 28$

$$x = 6 \pm \sqrt{14}$$

(12) $4(x - 3)^2 - 8 = 0$

$$x = 3 \pm \sqrt{2}$$

(13) $5(x - 5)^2 - 60 = 0$

$$x = 5 \pm 2\sqrt{3}$$

2 次方程式 01-7

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 16$

(2) $x^2 = 36$

(3) $a^2 = 16$

(4) $x^2 - 16 = 0$

(5) $x^2 - 100 = 0$

(6) $(x + 6)^2 = 21$

(7) $(x + 3)^2 = 18$

(8) $(x + 5)^2 - 39 = 0$

(9) $(x + 2)^2 - 38 = 0$

(10) $3(x + 5)^2 = 36$

(11) $5(x + 6)^2 = 15$

(12) $5(x + 3)^2 - 110 = 0$

(13) $2(x - 5)^2 - 44 = 0$

2 次方程式 01-7

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 16$

$$x = \pm 4$$

(2) $x^2 = 36$

$$x = \pm 6$$

(3) $a^2 = 16$

$$a = \pm 4$$

(4) $x^2 - 16 = 0$

$$x = \pm 4$$

(5) $x^2 - 100 = 0$

$$x = \pm 10$$

(6) $(x + 6)^2 = 21$

$$x = -6 \pm \sqrt{21}$$

(7) $(x + 3)^2 = 18$

$$x = -3 \pm 3\sqrt{2}$$

(8) $(x + 5)^2 - 39 = 0$

$$x = -5 \pm \sqrt{39}$$

(9) $(x + 2)^2 - 38 = 0$

$$x = -2 \pm \sqrt{38}$$

(10) $3(x + 5)^2 = 36$

$$x = -5 \pm 2\sqrt{3}$$

(11) $5(x + 6)^2 = 15$

$$x = -6 \pm \sqrt{3}$$

(12) $5(x + 3)^2 - 110 = 0$

$$x = -3 \pm \sqrt{22}$$

(13) $2(x - 5)^2 - 44 = 0$

$$x = 5 \pm \sqrt{22}$$

2 次方程式 01-8

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 10$

(2) $a^2 = 64$

(3) $a^2 = 7$

(4) $x^2 - 13 = 0$

(5) $x^2 - 22 = 0$

(6) $(x - 6)^2 = 33$

(7) $(x + 1)^2 = 21$

(8) $(x + 6)^2 - 31 = 0$

(9) $(x - 3)^2 - 29 = 0$

(10) $5(x - 1)^2 = 40$

(11) $4(x + 5)^2 = 44$

(12) $5(x + 4)^2 - 35 = 0$

(13) $3(x + 3)^2 - 57 = 0$

2 次方程式 01-8

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $x^2 = 10$

$$x = \pm\sqrt{10}$$

(2) $a^2 = 64$

$$a = \pm 8$$

(3) $a^2 = 7$

$$a = \pm\sqrt{7}$$

(4) $x^2 - 13 = 0$

$$x = \pm\sqrt{13}$$

(5) $x^2 - 22 = 0$

$$x = \pm\sqrt{22}$$

(6) $(x - 6)^2 = 33$

$$x = 6 \pm \sqrt{33}$$

(7) $(x + 1)^2 = 21$

$$x = -1 \pm \sqrt{21}$$

(8) $(x + 6)^2 - 31 = 0$

$$x = -6 \pm \sqrt{31}$$

(9) $(x - 3)^2 - 29 = 0$

$$x = 3 \pm \sqrt{29}$$

(10) $5(x - 1)^2 = 40$

$$x = 1 \pm 2\sqrt{2}$$

(11) $4(x + 5)^2 = 44$

$$x = -5 \pm \sqrt{11}$$

(12) $5(x + 4)^2 - 35 = 0$

$$x = -4 \pm \sqrt{7}$$

(13) $3(x + 3)^2 - 57 = 0$

$$x = -3 \pm \sqrt{19}$$

2 次方程式 01-9

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 49$

(2) $x^2 = 36$

(3) $x^2 = 24$

(4) $a^2 - 100 = 0$

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

(6) $(x + 4)^2 = 2$

(7) $(x - 2)^2 = 29$

(8) $(x - 5)^2 - 5 = 0$

(9) $(x - 1)^2 - 15 = 0$

(10) $4(x + 2)^2 = 8$

(11) $3(x + 1)^2 = 9$

(12) $3(x - 6)^2 - 15 = 0$

(13) $5(x - 2)^2 - 65 = 0$

2 次方程式 01-9

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 49$

$$a = \pm 7$$

(2) $x^2 = 36$

$$x = \pm 6$$

(3) $x^2 = 24$

$$x = \pm 2\sqrt{6}$$

(4) $a^2 - 100 = 0$

$$a = \pm 10$$

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

$$x = \pm 2$$

(6) $(x + 4)^2 = 2$

$$x = -4 \pm \sqrt{2}$$

(7) $(x - 2)^2 = 29$

$$x = 2 \pm \sqrt{29}$$

(8) $(x - 5)^2 - 5 = 0$

$$x = 5 \pm \sqrt{5}$$

(9) $(x - 1)^2 - 15 = 0$

$$x = 1 \pm \sqrt{15}$$

(10) $4(x + 2)^2 = 8$

$$x = -2 \pm \sqrt{2}$$

(11) $3(x + 1)^2 = 9$

$$x = -1 \pm \sqrt{3}$$

(12) $3(x - 6)^2 - 15 = 0$

$$x = 6 \pm \sqrt{5}$$

(13) $5(x - 2)^2 - 65 = 0$

$$x = 2 \pm \sqrt{13}$$

2 次方程式 01-10

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 11$

(2) $a^2 = 19$

(3) $x^2 = 4$

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

(5) $x^2 - 20 = 0$

(6) $(x - 1)^2 = 30$

(7) $(x + 3)^2 = 40$

(8) $(x - 6)^2 - 22 = 0$

(9) $(x - 1)^2 - 26 = 0$

(10) $4(x + 2)^2 = 20$

(11) $3(x - 3)^2 = 18$

(12) $3(x - 2)^2 - 6 = 0$

(13) $5(x + 1)^2 - 115 = 0$

2 次方程式 01-10

(/13) (分 秒)

次の 2 次方程式を解きなさい。

(1) $a^2 = 11$

$$a = \pm\sqrt{11}$$

(2) $a^2 = 19$

$$a = \pm\sqrt{19}$$

(3) $x^2 = 4$

$$x = \pm 2$$

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

$$x = \pm\sqrt{5}$$

(5) $x^2 - 20 = 0$

$$x = \pm 2\sqrt{5}$$

(6) $(x - 1)^2 = 30$

$$x = 1 \pm \sqrt{30}$$

(7) $(x + 3)^2 = 40$

$$x = -3 \pm 2\sqrt{10}$$

(8) $(x - 6)^2 - 22 = 0$

$$x = 6 \pm \sqrt{22}$$

(9) $(x - 1)^2 - 26 = 0$

$$x = 1 \pm \sqrt{26}$$

(10) $4(x + 2)^2 = 20$

$$x = -2 \pm \sqrt{5}$$

(11) $3(x - 3)^2 = 18$

$$x = 3 \pm \sqrt{6}$$

(12) $3(x - 2)^2 - 6 = 0$

$$x = 2 \pm \sqrt{2}$$

(13) $5(x + 1)^2 - 115 = 0$

$$x = -1 \pm \sqrt{23}$$