

2次方程式の解き方（平方根）

以下の問題を解いてください

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

(8) $-2x^2 = -12$

(15) $x^2 - 10 = 10$

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

(9) $7x^2 = 5$

(16) $7x^2 - 25 = 3$

(3) $x^2 = 49$

(10) $3x^2 - 27 = 0$

(17) $12x^2 = 1$

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

(11) $6x^2 - 72 = 0$

(18) $(x + 1)^2 = 25$

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

(12) $36x^2 - 16 = 0$

(19) $(x - 3)^2 = 9$

(6) $3x^2 = 21$

(13) $81x^2 - 7 = 0$

(20) $(x + 6)^2 = 64$

(7) $5x^2 = 80$

(14) $54x^2 - 6 = 0$

解答

$$(1) x = 1, 4$$

$$(8) x = \pm\sqrt{6}$$

$$(14) x = \pm\frac{1}{3}$$

$$(2) x = 0, 3$$

$$(9) x = \pm\frac{\sqrt{35}}{7}$$

$$(15) x = \pm 2\sqrt{5}$$

$$(3) x = \pm 7$$

$$(10) x = \pm 3$$

$$(16) x = \pm 2$$

$$(4) x = \pm 5$$

$$(11) x = \pm 2\sqrt{3}$$

$$(17) x = \pm\frac{\sqrt{3}}{6}$$

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

$$(12) x = \pm\frac{2}{3}$$

$$(18) x = 4, -6$$

$$(6) x = \pm\sqrt{7}$$

$$(13) x = \pm\frac{\sqrt{7}}{9}$$

$$(19) x = 6, 0$$

$$(7) x = \pm 4$$

$$(20) x = 2, 14$$