

2次方程式 [因数分解を使った解き方]

<演習問題>

次の方程式を解け。

(1) $x^2 - 7x = 0$

(9) $x^2 - 10x + 21 = 0$

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

(10) $x^2 - 10x + 25 = 0$

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

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

(4) $x^2 + x - 30 = 0$

(12) $x^2 + 12x + 36 = 0$

(5) $x^2 + 5x - 24 = 0$

(13) $x^2 + 24x + 144 = 0$

(6) $x^2 - 13x + 12 = 0$

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

(7) $x^2 - 9x + 20 = 0$

(15) $x^2 - 121 = 0$

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

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次の方程式を解け。

(1) $x^2 - 7x = 0$

$$x^2 - 7x = 0$$

$$x(x - 7) = 0$$

$$x = 0, 7$$

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

$$x^2 - 7x + 12 = 0$$

$$(x - 3)(x - 4) = 0$$

$$x = 3, 4$$

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

$$x^2 - x - 6 = 0$$

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

$$x = 3, -2$$

(4) $x^2 + x - 30 = 0$

$$x^2 + x - 30 = 0$$

$$(x - 5)(x + 6) = 0$$

$$x = 5, -6$$

(5) $x^2 + 5x - 24 = 0$

$$x^2 + 5x - 24 = 0$$

$$(x - 3)(x + 8) = 0$$

$$x = 3, -8$$

(6) $x^2 - 13x + 12 = 0$

$$x^2 - 13x + 12 = 0$$

$$(x - 1)(x - 12) = 0$$

$$x = 1, 12$$

(7) $x^2 - 9x + 20 = 0$

$$x^2 - 9x + 20 = 0$$

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

$$x = 4, 5$$

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

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

$$(x - 1)(x - 2) = 0$$

$$x = 1, 2$$

(9) $x^2 - 10x + 21 = 0$

$$x^2 - 10x + 21 = 0$$

$$(x - 3)(x - 7) = 0$$

$$x = 3, 7$$

(10) $x^2 - 10x + 25 = 0$

$$x^2 - 10x + 25 = 0$$

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

$$x = 5$$

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

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

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

$$x = 3$$

(12) $x^2 + 12x + 36 = 0$

$$x^2 + 12x + 36 = 0$$

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

$$x = -6$$

(13) $x^2 + 24x + 144 = 0$

$$x^2 + 24x + 144 = 0$$

$$(x + 12)^2 = 0$$

$$x = -12$$

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

$$x^2 - 100 = 0$$

$$(x + 10)(x - 10) = 0$$

$$x = \pm 10$$

(15) $x^2 - 121 = 0$

$$x^2 - 121 = 0$$

$$(x + 11)(x - 11) = 0$$

$$x = \pm 11$$