

### 3年2次方程式(解答)

1. 次の方程式を解きなさい。

(1)  $x^2 + 7x + 6 = 0$  (岩手)

$$\underline{x = -1, x = -6}$$

(2)  $x(x + 4) = 2x + 3$  (秋田)

$$\underline{x = -3, x = 1}$$

(3)  $(x - 3)^2 = -x + 15$  (山形)

$$\underline{x = -1, x = 6}$$

(4)  $x^2 + 5x - 6 = 0$  (福島)

$$\underline{x = -6, x = 1}$$

(5)  $x^2 - 7 = 0$  (茨城)

$$\underline{x = \pm\sqrt{7}}$$

(6)  $x^2 - 2x - 15 = 0$  (栃木)

$$\underline{x = -3, x = 5}$$

(7)  $(x + 2)^2 = 7$  (埼玉)

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

(8)  $x^2 + 10x + 25 = 0$  (東京)

$$\underline{x = -5}$$

(9)  $(x - 6)^2 = 5$  (神奈川)

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

(10)  $x^2 - 2x - 24 = 0$  (新潟)

$$\underline{x = -4, x = 6}$$

(11)  $x^2 - x - 20 = 0$  (富山)

$$\underline{x = -4, x = 5}$$

(12)  $(x + 4)^2 = 25$  (静岡)

$$\underline{x = -9, x = 1}$$

(13)  $(x + 2)(x - 4) = 7$  (愛知)

$$\underline{x = -3, x = 5}$$

(14)  $x^2 + 4x - 3 = 5x + 9$  (三重)

$$\underline{x = -3, x = 4}$$

(15)  $x^2 - 16 = 6x$  (滋賀)

$$\underline{x = -2, x = 8}$$

(16)  $x^2 + 9x - 36 = 0$  (大阪)

$$\underline{x = -12, x = 3}$$

(17)  $(x + 2)^2 = 7x + 4$  (奈良)

$$\underline{x = 0, x = 3}$$

(18)  $(x + 1)(x - 3) = -3$  (徳島)

$$\underline{x = 0, x = 2}$$

(19)  $x(x + 2) = 3(x + 4)$  (福岡)

$$\underline{x = -3, x = 4}$$

(20)  $2x^2 + 5x = (x - 2)(x + 2)$  (長崎)

$$\underline{x = -1, x = -4}$$