

二次方程式 5.

組氏名 \_\_\_\_\_

1. 次の〔 〕にあてはまる数を入れよ。

(1)  $(x+5)^2 = x^2 + 10x + [ \quad ]$  (2)  $(x+3)^2 = x^2 + 6x + [ \quad ]$

(3)  $(x+2)^2 = x^2 + 4x + [ \quad ]$  (4)  $(x+4)^2 = x^2 + 8x + [ \quad ]$

(5)  $(x-2)^2 = x^2 - 4x + [ \quad ]$  (6)  $(x-6)^2 = x^2 - 12x + [ \quad ]$

(7)  $(x-1)^2 = x^2 - 2x + [ \quad ]$  (8)  $(x-\frac{1}{3})^2 = x^2 - \frac{2}{3}x + [ \quad ]$

(9)  $(x+5)^2 = x^2 + [ \quad ]x + [ \quad ]$  (10)  $(x+3)^2 = x^2 + [ \quad ]x + [ \quad ]$

(11)  $(x-2)^2 = x^2 - [ \quad ]x + [ \quad ]$  (12)  $(x-1)^2 = x^2 - [ \quad ]x + [ \quad ]$

(13)  $(x+[ \quad ])^2 = x^2 + 6x + 9$  (14)  $(x+[ \quad ])^2 = x^2 + 4x + 4$

(15)  $(x-[ \quad ])^2 = x^2 - 8x + 16$  (16)  $(x+[ \quad ])^2 = x^2 + 2x + 1$

(17)  $(x-[ \quad ])^2 = x^2 - 14x + 49$  (18)  $(x-[ \quad ])^2 = x^2 - 10x + 25$

(19)  $(x-[ \quad ])^2 = x^2 - 18x + 81$  (20)  $(x-[ \quad ])^2 = x^2 - 16x + 64$

(21)  $x^2 + 2x + [ \quad ] = (x + [ \quad ])^2$  (22)  $x^2 + 6x + [ \quad ] = (x + [ \quad ])^2$

(23)  $x^2 + 8x + [ \quad ] = (x + [ \quad ])^2$  (24)  $x^2 + 10x + [ \quad ] = (x + [ \quad ])^2$

(25)  $x^2 - 4x + [ \quad ] = (x - [ \quad ])^2$  (26)  $x^2 - 12x + [ \quad ] = (x - [ \quad ])^2$

(27)  $x^2 - 2x + [ \quad ] = (x - [ \quad ])^2$  (28)  $x^2 - 14x + [ \quad ] = (x - [ \quad ])^2$

(29)  $x^2 + 5x + [ \quad ] = (x + [ \quad ])^2$  (30)  $x^2 + 3x + [ \quad ] = (x + [ \quad ])^2$

(31)  $x^2 + 7x + [ \quad ] = (x + [ \quad ])^2$  (32)  $x^2 + x + [ \quad ] = (x + [ \quad ])^2$

(33)  $x^2 - 3x + [ \quad ] = (x - [ \quad ])^2$  (34)  $x^2 - 9x + [ \quad ] = (x - [ \quad ])^2$

2. 次の方程式を  $(x+a)^2 = b$  の形にして解きなさい。

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

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

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

(4)  $x^2 - 8x = 1$

(5)  $x^2 + 4x = 12$

(6)  $x^2 - 6x = 40$

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

(8)  $x^2 - 10x = -9$

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

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