

平方完成 02-1

(/10) (分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 3x + 4$

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

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

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

(5) $y = x^2 - 3x - 1$

(6) $y = x^2 + 2x + 1$

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

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

(9) $y = x^2 - 2x + 1$

(10) $y = x^2 - 4x + 3$

平方完成 02-1

(/10) (分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 3x + 4$

$$y = \left(x + \frac{3}{2}\right)^2 + \frac{7}{4}$$

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

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

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

$$y = \left(x + \frac{3}{2}\right)^2 + \frac{3}{4}$$

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

$$y = \left(x - \frac{1}{2}\right)^2 + \frac{3}{4}$$

(5) $y = x^2 - 3x - 1$

$$y = \left(x - \frac{3}{2}\right)^2 - \frac{13}{4}$$

(6) $y = x^2 + 2x + 1$

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

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

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{1}{4}$$

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

$$y = (x - 1)^2 - 3$$

(9) $y = x^2 - 2x + 1$

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

(10) $y = x^2 - 4x + 3$

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

平方完成 02-2

(/10) (分 秒)

次の2次関数を平方完成しなさい。

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

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

(3) $y = x^2 + 5x - 2$

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

(5) $y = x^2 - 4x + 5$

(6) $y = x^2 + 3x - 1$

(7) $y = x^2 + 4x - 2$

(8) $y = x^2 + x - 1$

(9) $y = x^2 + 3x - 3$

(10) $y = x^2 + 3x + 3$

平方完成 02-2

(/10) (分 秒)

次の2次関数を平方完成しなさい。

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

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

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

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{7}{4}$$

(3) $y = x^2 + 5x - 2$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{33}{4}$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{45}{4}$$

(5) $y = x^2 - 4x + 5$

$$y = (x - 2)^2 + 1$$

(6) $y = x^2 + 3x - 1$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{13}{4}$$

(7) $y = x^2 + 4x - 2$

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

(8) $y = x^2 + x - 1$

$$y = \left(x + \frac{1}{2}\right)^2 - \frac{5}{4}$$

(9) $y = x^2 + 3x - 3$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{21}{4}$$

(10) $y = x^2 + 3x + 3$

$$y = \left(x + \frac{3}{2}\right)^2 + \frac{3}{4}$$

平方完成 02-3

(/10) (分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 2x - 5$

(2) $y = x^2 - 5x + 4$

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

(4) $y = x^2 + 4x - 3$

(5) $y = x^2 + 3x + 5$

(6) $y = x^2 - 5x$

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

(8) $y = x^2 + 5x + 4$

(9) $y = x^2 - 2x + 1$

(10) $y = x^2 - x + 4$

平方完成 02-3

(/10) (分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 2x - 5$

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

(2) $y = x^2 - 5x + 4$

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{9}{4}$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{33}{4}$$

(4) $y = x^2 + 4x - 3$

$$y = (x + 2)^2 - 7$$

(5) $y = x^2 + 3x + 5$

$$y = \left(x + \frac{3}{2}\right)^2 + \frac{11}{4}$$

(6) $y = x^2 - 5x$

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{25}{4}$$

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

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{15}{4}$$

(8) $y = x^2 + 5x + 4$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{9}{4}$$

(9) $y = x^2 - 2x + 1$

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

(10) $y = x^2 - x + 4$

$$y = \left(x - \frac{1}{2}\right)^2 + \frac{15}{4}$$

平方完成 02-4

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 - 3x + 4$

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

(3) $y = x^2 + x + 5$

(4) $y = x^2 - 2x + 4$

(5) $y = x^2 + x + 1$

(6) $y = x^2 + 3x - 3$

(7) $y = x^2 - x + 2$

(8) $y = x^2 - x - 3$

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

(10) $y = x^2 + 2x + 1$

次の2次関数を平方完成しなさい。

(1) $y = x^2 - 3x + 4$

$$y = \left(x - \frac{3}{2}\right)^2 + \frac{7}{4}$$

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

$$y = \left(x - \frac{3}{2}\right)^2 - \frac{9}{4}$$

(3) $y = x^2 + x + 5$

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{19}{4}$$

(4) $y = x^2 - 2x + 4$

$$y = (x - 1)^2 + 3$$

(5) $y = x^2 + x + 1$

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{3}{4}$$

(6) $y = x^2 + 3x - 3$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{21}{4}$$

(7) $y = x^2 - x + 2$

$$y = \left(x - \frac{1}{2}\right)^2 + \frac{7}{4}$$

(8) $y = x^2 - x - 3$

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{13}{4}$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{13}{4}$$

(10) $y = x^2 + 2x + 1$

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

平方完成 02-5

(/10) (分 秒)

次の2次関数を平方完成しなさい。

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

(2) $y = x^2 - 5x + 5$

(3) $y = x^2 + 5x + 3$

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

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

(6) $y = x^2 + 3x - 5$

(7) $y = x^2 + 5x + 4$

(8) $y = x^2 - 3x + 1$

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

(10) $y = x^2 - 5x$

次の2次関数を平方完成しなさい。

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

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{9}{4}$$

(2) $y = x^2 - 5x + 5$

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{5}{4}$$

(3) $y = x^2 + 5x + 3$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{13}{4}$$

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

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

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

$$y = (x + 2)^2 - 4$$

(6) $y = x^2 + 3x - 5$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{29}{4}$$

(7) $y = x^2 + 5x + 4$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{9}{4}$$

(8) $y = x^2 - 3x + 1$

$$y = \left(x - \frac{3}{2}\right)^2 - \frac{5}{4}$$

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

$$y = (x - 1)^2 - 5$$

(10) $y = x^2 - 5x$

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{25}{4}$$

平方完成 02-6

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 5x + 2$

(2) $y = x^2 + x - 2$

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

(4) $y = x^2 - 3x + 4$

(5) $y = x^2 + 2x + 1$

(6) $y = x^2 + 3x - 2$

(7) $y = x^2 + 5x - 5$

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

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

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

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 5x + 2$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{17}{4}$$

(2) $y = x^2 + x - 2$

$$y = \left(x + \frac{1}{2}\right)^2 - \frac{9}{4}$$

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

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{1}{4}$$

(4) $y = x^2 - 3x + 4$

$$y = \left(x - \frac{3}{2}\right)^2 + \frac{7}{4}$$

(5) $y = x^2 + 2x + 1$

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

(6) $y = x^2 + 3x - 2$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{17}{4}$$

(7) $y = x^2 + 5x - 5$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{45}{4}$$

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

$$y = (x - 1)^2 + 2$$

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

$$y = \left(x - \frac{3}{2}\right)^2 + \frac{11}{4}$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{29}{4}$$

平方完成 02-7

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 5x + 2$

(2) $y = x^2 + x + 5$

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

(4) $y = x^2 + 3x$

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

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

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

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

(9) $y = x^2 - x - 1$

(10) $y = x^2 + 5x - 2$

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 5x + 2$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{17}{4}$$

(2) $y = x^2 + x + 5$

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{19}{4}$$

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

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

(4) $y = x^2 + 3x$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{9}{4}$$

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

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

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

$$y = (x + 2)^2 - 4$$

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

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

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

$$y = \left(x - \frac{1}{2}\right)^2 + \frac{11}{4}$$

(9) $y = x^2 - x - 1$

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{5}{4}$$

(10) $y = x^2 + 5x - 2$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{33}{4}$$

平方完成 02-8

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

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

(2) $y = x^2 + x - 3$

(3) $y = x^2 + 5x + 2$

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

(5) $y = x^2 - x + 5$

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

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

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

(9) $y = x^2 - 5x + 1$

(10) $y = x^2 + 5x - 5$

次の2次関数を平方完成しなさい。

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

$$y = (x - 2)^2$$

(2) $y = x^2 + x - 3$

$$y = \left(x + \frac{1}{2}\right)^2 - \frac{13}{4}$$

(3) $y = x^2 + 5x + 2$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{17}{4}$$

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

$$y = (x + 1)^2 - 1$$

(5) $y = x^2 - x + 5$

$$y = \left(x - \frac{1}{2}\right)^2 + \frac{19}{4}$$

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

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{11}{4}$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{13}{4}$$

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

$$y = (x - 1)^2 + 1$$

(9) $y = x^2 - 5x + 1$

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{21}{4}$$

(10) $y = x^2 + 5x - 5$

$$y = \left(x + \frac{5}{2}\right)^2 - \frac{45}{4}$$

平方完成 02-9

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 2x - 1$

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

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

(4) $y = x^2 - 4x + 2$

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

(6) $y = x^2 + 3x - 2$

(7) $y = x^2 + 2x - 2$

(8) $y = x^2 + x + 2$

(9) $y = x^2 - 3x - 1$

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

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 2x - 1$

$$y = (x + 1)^2 - 2$$

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

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{21}{4}$$

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

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{1}{4}$$

(4) $y = x^2 - 4x + 2$

$$y = (x - 2)^2 - 2$$

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

$$y = \left(x - \frac{5}{2}\right)^2 - \frac{33}{4}$$

(6) $y = x^2 + 3x - 2$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{17}{4}$$

(7) $y = x^2 + 2x - 2$

$$y = (x + 1)^2 - 3$$

(8) $y = x^2 + x + 2$

$$y = \left(x + \frac{1}{2}\right)^2 + \frac{7}{4}$$

(9) $y = x^2 - 3x - 1$

$$y = \left(x - \frac{3}{2}\right)^2 - \frac{13}{4}$$

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

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{21}{4}$$

平方完成 02-10

(/10)

(分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 3x - 4$

(2) $y = x^2 + x - 2$

(3) $y = x^2 + 4x$

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

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

(6) $y = x^2 + 3x - 5$

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

(8) $y = x^2 + 3x + 4$

(9) $y = x^2 - 4x + 3$

(10) $y = x^2 + 2x + 5$

平方完成 02-10

(/10) (分 秒)

次の2次関数を平方完成しなさい。

(1) $y = x^2 + 3x - 4$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{25}{4}$$

(2) $y = x^2 + x - 2$

$$y = \left(x + \frac{1}{2}\right)^2 - \frac{9}{4}$$

(3) $y = x^2 + 4x$

$$y = (x + 2)^2 - 4$$

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

$$y = \left(x - \frac{1}{2}\right)^2 - \frac{5}{4}$$

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

$$y = (x + 2)^2 - 3$$

(6) $y = x^2 + 3x - 5$

$$y = \left(x + \frac{3}{2}\right)^2 - \frac{29}{4}$$

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

$$y = (x + 1)^2 - 1$$

(8) $y = x^2 + 3x + 4$

$$y = \left(x + \frac{3}{2}\right)^2 + \frac{7}{4}$$

(9) $y = x^2 - 4x + 3$

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

(10) $y = x^2 + 2x + 5$

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