

DM3-13A 二次方程式：解の公式 基礎 解答

【1】解の公式を使う準備

$$(1) \quad a = 1, b = 3, c = 1$$

$$(2) \quad a = 1, b = -5, c = 2$$

$$(3) \quad a = 2, b = 4, c = 1$$

$$(4) \quad a = 3, b = -2, c = 5$$

$$(5) \quad a = -1, b = 6, c = -3$$

$$(6) \quad a = -2, b = -3, c = 4$$

$$(7) \quad a = 4, b = 1, c = -2$$

$$(8) \quad a = 5, b = -7, c = 1$$

【2】 $x^2 + bx + c = 0$ の形

$$(9) \quad x = -1 \pm \sqrt{2}$$

$$(10) \quad x = 1 \pm \sqrt{2}$$

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

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

$$(13) \quad x = -3 \pm \sqrt{7}$$

$$(14) \quad x = 3 \pm \sqrt{7}$$

$$(15) \quad x = -4 \pm \sqrt{11}$$

$$(16) \quad x = 4 \pm \sqrt{11}$$

【3】 $ax^2 + bx + c = 0$ の形

$$(17) \quad x = -1, -\frac{1}{2}$$

$$(18) \quad x = 1, -\frac{1}{2}$$

$$(19) \quad x = \frac{-5 \pm \sqrt{13}}{6}$$

$$(20) \quad x = \frac{1 \pm \sqrt{13}}{6}$$

$$(21) \quad x = \frac{-2 \pm \sqrt{2}}{2}$$

$$(22) \quad x = \frac{2 \pm \sqrt{2}}{2}$$

$$(23) \quad x = \frac{-3 \pm \sqrt{6}}{3}$$

$$(24) \quad x = \frac{3 \pm \sqrt{6}}{3}$$

【4】解の公式の基本練習

$$(25) \quad x = \frac{-1 \pm \sqrt{5}}{2}$$

$$(26) \quad x = \frac{1 \pm \sqrt{5}}{2}$$

$$(27) \quad x = -2, -\frac{1}{2}$$

$$(28) \quad x = 2, \frac{1}{2}$$

$$(29) \quad x = -1, -\frac{1}{3}$$

$$(30) \quad x = 1, \frac{1}{3}$$

$$(31) \quad x = \frac{-1 \pm \sqrt{2}}{2}$$

$$(32) \quad x = \frac{1 \pm \sqrt{2}}{2}$$