

DM3-13B 二次方程式：解の公式 標準 解答

【1】解の公式を使う

$$(1) \quad x = \frac{-3 \pm \sqrt{13}}{2}$$

$$(2) \quad x = \frac{5 \pm \sqrt{29}}{2}$$

$$(3) \quad x = -2 \pm \sqrt{6}$$

$$(4) \quad x = 3 \pm \sqrt{11}$$

$$(5) \quad x = 1, -3$$

$$(6) \quad x = 3, -1$$

$$(7) \quad x = -4 \pm \sqrt{13}$$

$$(8) \quad x = 4 \pm \sqrt{13}$$

【2】係数付きの二次方程式

$$(9) \quad x = \frac{-5 \pm \sqrt{17}}{4}$$

$$(10) \quad x = \frac{5 \pm \sqrt{17}}{4}$$

$$(11) \quad x = -1, -\frac{1}{3}$$

$$(12) \quad x = 1, \frac{1}{3}$$

$$(13) \quad x = \frac{-1 \pm \sqrt{2}}{2}$$

$$(14) \quad x = \frac{1 \pm \sqrt{2}}{2}$$

$$(15) \quad x = -1, -\frac{1}{5}$$

$$(16) \quad x = 1, \frac{1}{5}$$

【3】整理してから解の公式を使う

$$(17) \quad x = \frac{-3 \pm \sqrt{17}}{2}$$

$$(18) \quad x = \frac{5 \pm \sqrt{37}}{2}$$

$$(19) \quad x = \frac{-3 \pm \sqrt{17}}{4}$$

$$(20) \quad x = \frac{1 \pm 5}{4}$$

$$(21) \quad x = 1, -\frac{4}{3}$$

$$(22) \quad x = \frac{5 \pm \sqrt{61}}{6}$$

$$(23) \quad x = \frac{-2 \pm \sqrt{10}}{2}$$

$$(24) \quad x = \frac{1 \pm \sqrt{21}}{4}$$

【4】解の公式の標準練習

$$(25) \quad x = \frac{1}{2}, -1$$

$$(27) \quad x = \frac{-5 \pm \sqrt{37}}{6}$$

$$(29) \quad x = \frac{-1 \pm \sqrt{6}}{5}$$

$$(31) \quad x = -\frac{1}{2}, -\frac{2}{3}$$

$$(26) \quad x = 1, -\frac{1}{2}$$

$$(28) \quad x = \frac{5 \pm \sqrt{37}}{6}$$

$$(30) \quad x = \frac{1 \pm \sqrt{6}}{5}$$

$$(32) \quad x = \frac{1}{2}, \frac{2}{3}$$