

DM3-13C 二次方程式：解の公式 発展 解答

【1】解の公式を使う

$$(1) \quad x = \frac{-5 \pm \sqrt{21}}{2}$$

$$(2) \quad x = \frac{7 \pm \sqrt{41}}{2}$$

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

$$(4) \quad x = 5, -1$$

$$(5) \quad x = -5 \pm 3\sqrt{2}$$

$$(6) \quad x = 4 \pm \sqrt{5}$$

$$(7) \quad x = 4, -1$$

$$(8) \quad x = 1, -4$$

【2】係数付きの二次方程式

$$(9) \quad x = \frac{-7 \pm \sqrt{41}}{4}$$

$$(10) \quad x = \frac{7 \pm \sqrt{41}}{4}$$

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

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

$$(13) \quad x = \frac{-2 \pm \sqrt{14}}{5}$$

$$(14) \quad x = \frac{2 \pm \sqrt{14}}{5}$$

$$(15) \quad x = \frac{1}{2}, -\frac{2}{3}$$

$$(16) \quad x = \frac{2}{3}, -\frac{1}{2}$$

【3】整理してから解の公式を使う

$$(17) \quad x = -1 \pm \sqrt{5}$$

$$(18) \quad x = \frac{7 \pm \sqrt{29}}{2}$$

$$(19) \quad x = \frac{-1 \pm \sqrt{11}}{2}$$

$$(20) \quad x = \frac{3 \pm \sqrt{33}}{4}$$

$$(21) \quad x = \frac{1 \pm \sqrt{13}}{3}$$

$$(22) \quad x = \frac{3 \pm 3\sqrt{3}}{3}$$

$$(23) \quad x = \frac{1 \pm 9}{8}$$

$$(24) \quad x = \frac{1 \pm \sqrt{17}}{2}$$

【4】解の公式の発展練習

$$(25) \quad x = \frac{-2 \pm \sqrt{10}}{2}$$

$$(27) \quad x = \frac{-3 \pm \sqrt{15}}{3}$$

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

$$(31) \quad x = \frac{-6 \pm \sqrt{42}}{6}$$

$$(26) \quad x = \frac{2 \pm \sqrt{10}}{2}$$

$$(28) \quad x = \frac{3 \pm \sqrt{15}}{3}$$

$$(30) \quad x = \frac{5 \pm 2\sqrt{5}}{5}$$

$$(32) \quad x = \frac{6 \pm \sqrt{42}}{6}$$