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中3数学
2次方程式計算総合-No 3

NAME
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|-----------------------|---------------------------|---|-----------------------------|---|-----------------------------|
| ① $x^2 - 36 = 0$ | $x = \pm 6$ | ① $(x-2)^2 = 9$ $x-2 = \pm 3$ | $5, -7$ | ① $x^2 - 4x = 0$ $x(x-4) = 0$ | $0, 4$ |
| ② $x^2 - 12 = 0$ | $\pm 2\sqrt{3}$ | ② $(x+4)^2 = 64$ $x+4 = +8, -8$ | $4, -12$ | ② $x^2 = 7x$ $x(x-7) = 0$ | $0, 7$ |
| ③ $49x^2 = 64$ | $\pm \frac{8}{7}$ | ③ $(x-7)^2 = 8$ $x-7 = \pm 2\sqrt{2}$ | $7 \pm 2\sqrt{2}$ | ③ $8x^2 - 6x = 0$ $2x(4x-3) = 0$ | $0, \frac{3}{4}$ |
| ④ $x^2 - 32 = 0$ | $\pm 4\sqrt{2}$ | ④ $(x+5)^2 = 20$ $x+5 = \pm 2\sqrt{5}$ | $-5 \pm 2\sqrt{5}$ | ④ $x^2 - 4x + 3 = 0$ $(x-3)(x-1) = 0$ | $3, 1$ |
| ⑤ $25x^2 = 6$ | $\pm \frac{\sqrt{6}}{5}$ | ⑤ $(x-9)^2 = 50$ $x-9 = \pm 5\sqrt{2}$ | $9 \pm 5\sqrt{2}$ | ⑤ $x^2 + 2x - 8 = 0$ $(x+4)(x-2) = 0$ | $-4, 2$ |
| ⑥ $6x^2 - 5 = 0$ | $\pm \frac{\sqrt{30}}{6}$ | ⑥ $(x-3)^2 - 49 = 0$ $x-3 = +7, -7$ | $10, -4$ | ⑥ $x^2 + 12x + 35 = 0$ $(x+5)(x+7) = 0$ | $-5, -7$ |
| ⑦ $x^2 - 80 = 0$ | $\pm 4\sqrt{5}$ | ⑦ $(x+6)^2 - 32 = 0$ $x+6 = \pm 4\sqrt{2}$ | $-6 \pm 4\sqrt{2}$ | ⑦ $25x^2 - 10x + 1 = 0$ $(5x-1)^2 = 0$ | $\frac{1}{5}$ |
| ⑧ $x^2 - 5 = 4$ | ± 3 | ⑧ $(x-5)(x+3) = 0$ | $5, -3$ | ⑧ $9x^2 + 12x + 4 = 0$ $(3x+2)^2 = 0$ | $-\frac{2}{3}$ |
| ⑨ $x^2 + 3 = 21$ | $\pm 3\sqrt{2}$ | ⑨ $(x+8)(x-2) = 0$ | $-8, 2$ | ⑨ $9x^2 - 1 = 3$ $9x^2 - 4 = (3x+2)(3x-2)$ | $-\frac{2}{3}, \frac{2}{3}$ |
| ⑩ $x^2 - 7 = 17$ | $\pm 2\sqrt{6}$ | ⑩ $x(4x+1) = 0$ | $0, -\frac{1}{4}$ | ⑩ $49x^2 - 11 = 14$ $49x^2 - 25 = 0$ $(7x+5)(7x-5) = 0$ | $-\frac{5}{7}, \frac{5}{7}$ |
| ⑪ $16x^2 + 2 = 10$ | $\pm \frac{\sqrt{2}}{2}$ | ⑪ $3x(5x-3) = 0$ | $0, \frac{3}{5}$ | ⑪ $3x^2 - 12x + 12 = 0$ | $x = 2$ |
| ⑫ $27x^2 - 8 = 22$ | $\pm \frac{\sqrt{10}}{3}$ | ⑫ $-2x(3x+8) = 0$ | $0, -\frac{8}{3}$ | ⑫ $3x^2 - 3x + 10 = 2x(x+2)$ | $x = 2, 5$ |
| ⑬ $12x^2 + 9 = 11$ | $\pm \frac{\sqrt{6}}{6}$ | ⑬ $(2x+5)(3x+3) = 0$ | $-\frac{5}{2}, -1$ | ⑬ $(x-3)(x+1) - 7 = -2$ | $x = -2, 4$ |
| ⑭ $24x^2 - 5 = 6x^2$ | $\pm \frac{\sqrt{10}}{6}$ | ⑭ $(6x-7)(4x+6) = 0$ | $\frac{7}{6}, -\frac{3}{2}$ | ⑭ $(x+3)^2 = 4x+9$ | $x = 0, -2$ |
| ⑮ $21x^2 - 28 = 3x^2$ | $\pm \frac{\sqrt{14}}{3}$ | ⑮ $(9x-8)(5x-7) = 0$ | $\frac{8}{9}, \frac{7}{5}$ | ⑮ $(2x-1)(x+1) = (x+1)^2$ | $x = -1, 2$ |

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