

二次方程式 2.

組氏若

1. 次の方程式を解け.

(1) $2x^2 = 8$

(2) $3x^2 = 3$

$$\begin{aligned} 5x^2 &= 20 \\ x^2 &= 4 \\ x &= \pm 2 \end{aligned}$$

(3) $5x^2 = 45$

(4) $6x^2 = 150$

(5) $7x^2 = 0$

(6) $2x^2 = 128$

(7) $4x^2 = 400$

(8) $13 = 13x^2$

(9) $3x^2 = \frac{27}{25}$

(10) $\frac{1}{2}x^2 = 32$

(11) $0.1x^2 = 4.9$

2. 次の方程式を解け.

(1) $2x^2 = 14$

(2) $3x^2 = 21$

$$\begin{aligned} 4x^2 &= 32 \\ x^2 &= 8 \\ x &= \pm\sqrt{8} \\ x &= \pm 2\sqrt{2} \end{aligned}$$

(3) $4x^2 = 8$

(4) $10x^2 = 60$

(5) $7x^2 = 49$

(6) $5x^2 = 40$

(7) $3x^2 = 54$

(8) $2x^2 = 64$

(9) $6x^2 = 108$

(10) $7x^2 = 112$

(11) $3x^2 = \frac{36}{49}$

3. 次の方程式を解け.

(1) $2x^2 - 50 = 0$

(2) $6x^2 - 6 = 0$

$$\begin{aligned} 5x^2 - 20 &= 0 \\ 5x^2 &= 20 \\ x^2 &= 4 \\ x &= \pm 2 \end{aligned}$$

(3) $5x^2 - 45 = 0$

(4) $6x^2 - 150 = 0$

(5) $2x^2 - 128 = 0$

(6) $3x^2 - 300 = 0$

(7) $3x^2 - \frac{27}{25} = 0$

(8) $\frac{1}{2}x^2 - 32 = 0$

4. 次の方程式を解け.

(1) $2x^2 - 14 = 0$

(2) $3x^2 - 15 = 0$

$$\begin{aligned} 4x^2 - 32 &= 0 \\ 4x^2 &= 32 \\ x^2 &= 8 \\ x &= \pm\sqrt{8} \\ x &= \pm 2\sqrt{2} \end{aligned}$$

(3) $5x^2 - 60 = 0$

(4) $3x^2 - 81 = 0$

(5) $2x^2 - 64 = 0$

(6) $6x^2 - 108 = 0$

(7) $7x^2 - 112 = 0$

(8) $3x^2 - \frac{36}{25} = 0$