

二次方程式 1.

組氏名

1. 次の方程式を解け.

(1)  $x^2 = 25$

(2)  $x^2 = 16$

$x^2 = 4$   
 $x = \pm 2$

(3)  $x^2 = 64$

(4)  $x^2 = 1$

(5)  $x^2 = 9$

(6)  $x^2 = 100$

(7)  $x^2 = 49$

(8)  $x^2 = 36$

(9)  $x^2 = \frac{4}{25}$

(10)  $x^2 = \frac{16}{49}$

(11)  $x^2 = \frac{81}{100}$

(12)  $x^2 = 0.49$

(13)  $x^2 = 0.09$

(14)  $x^2 = 0.16$

2. 次の方程式を解け.

(1)  $x^2 = 5$

(2)  $x^2 = 11$

$x^2 = 27$   
 $x = \pm\sqrt{27}$   
 $x = \pm 3\sqrt{3}$

(3)  $x^2 = 3$

(4)  $x^2 = 15$

(5)  $x^2 = 6$

(6)  $x^2 = 8$

(7)  $x^2 = 12$

(8)  $x^2 = 27$

(9)  $x^2 = 45$

(10)  $x^2 = 32$

(11)  $x^2 = 50$

(12)  $x^2 = 20$

(13)  $x^2 = 80$

(14)  $x^2 = 200$

3. 次の方程式を解け.

(1)  $x^2 - 25 = 0$

(2)  $x^2 - 16 = 0$

$x^2 - 4 = 0$   
 $x^2 = 4$   
 $x = \pm 2$

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

(4)  $x^2 - 9 = 0$

(5)  $x^2 - 100 = 0$

(6)  $x^2 - 49 = 0$

(7)  $x^2 - 36 = 0$

(8)  $x^2 - \frac{4}{25} = 0$

(9)  $x^2 - \frac{49}{100} = 0$

(10)  $4 - x^2 = 0$

(11)  $0.49 - x^2 = 0$

4. 次の方程式を解け.

(1)  $x^2 - 10 = 0$

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

$x^2 - 12 = 0$   
 $x^2 = 12$   
 $x = \pm\sqrt{12}$

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

(4)  $x^2 - 17 = 0$

(5)  $x^2 - 35 = 0$

(6)  $x^2 - 18 = 0$

(7)  $x^2 - 24 = 0$

(8)  $x^2 - 72 = 0$

(9)  $x^2 - 9 = 3$

(10)  $x^2 - 36 = 36$

(11)  $x^2 - 50 = 150$

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

二次方程式 3.

組名

1. 次の方程式を解け.

(1)  $(x+2)^2=3$

(2)  $(x+3)^2=6$

$$\begin{aligned} (x+4)^2 &= 6 \\ x+4 &= \pm\sqrt{6} \\ x &= -4 \pm\sqrt{6} \end{aligned}$$

(3)  $(x-1)^2=5$

(4)  $(x-9)^2=7$

(5)  $(x-6)^2=3$

(6)  $(x+4)^2=12$

(7)  $(x-5)^2=27$

(8)  $(x+3)^2=45$

2. 次の方程式を解け.

(1)  $(x-2)^2=25$

(2)  $(x+3)^2=49$

$$\begin{aligned} (x+2)^2 &= 36 \\ x+2 &= \pm 6 \\ x &= -2 \pm 6 \\ x &= -2+6, x = -2-6 \\ x &= 4, x = -8 \end{aligned}$$

(3)  $(x-6)^2=1$

(4)  $(x+5)^2=16$

(5)  $(x-4)^2=0$

(6)  $(x+3)^2=36$

(7)  $(x-1)^2=9$

(8)  $(x+6)^2=36$

3. 次の方程式をとり.

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

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

$$\begin{aligned} (x+2)^2 - 6 &= 0 \\ (x+2)^2 &= 6 \\ x+2 &= \pm\sqrt{6} \\ x &= -2 \pm\sqrt{6} \end{aligned}$$

(3)  $(x-1)^2-3=0$

(4)  $(x-8)^2-7=0$

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

(6)  $(x+5)^2-27=0$

(7)  $(x-3)^2-20=0$

(8)  $(x+9)^2-98=0$

4. 次の方程式を解け.

(1)  $(x-4)^2-49=0$

(2)  $(x+3)^2-25=0$

$$\begin{aligned} (x-2)^2 - 16 &= 0 \\ (x-2)^2 &= 16 \\ x-2 &= \pm 4 \\ x &= 2 \pm 4 \\ x &= 2+4, x = 2-4 \\ x &= 6, x = -2 \end{aligned}$$

(3)  $(x-2)^2-16=0$

(4)  $(x+5)^2-81=0$

(5)  $(x-1)^2-36=0$

(6)  $(x+3)^2-100=0$

(7)  $(x-6)^2-64=0$

(8)  $(x-7)^2-49=0$