/18

■ 次の方程式を解きなさい。

① $(x-2)^2 = 3$

 $(7)(x+6)^2=5$

 $(3) (x-9)^2 - 24 = 0$

 $\chi =$

x =

 $\chi =$

 $(2)(x-3)^2-21=0$

 $(8)(x+2)^2-11=0$

 $(4)(x+9)^2=25$

 $\chi =$

 $\chi =$

x =

 $(3)(x+5)^2-17=0$

 $(9)(x-6)^2-1=0$

① $(x-4)^2-16=0$

x =

 $\chi =$

 $\chi =$

 $(4)(x-1)^2=34$

① $(x+3)^2 = 28$

 $(6)(x-7)^2=44$

x =

 $\chi =$

 $\chi =$

 $(5)(x-8)^2-49=0$

① $(x+4)^2 = 63$

 $(7) (x+7)^2 - 32 = 0$

v=

|x=

v =

 $(6)(x+1)^2=23$

 $(2) (x+8)^2 - 31 = 0$

 $(8)(x-5)^2=20$

 $\gamma =$

 $\chi =$

■次の方程式を解きなさい。

①
$$(x-2)^2 = 3$$

 $x-2 = \pm \sqrt{3}$

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

②
$$(x-3)^2-21=0$$

 $(x-3)^2=21$
 $x-3=\pm\sqrt{21}$

$$x=3\pm\sqrt{21}$$

③
$$(x+5)^2 - 17 = 0$$

 $(x+5)^2 = 17$
 $x+5 = \pm \sqrt{17}$

$$x = -5 \pm \sqrt{17}$$

$$(4) (x-1)^2 = 34$$

$$x-1 = \pm \sqrt{34}$$

$$x = 1 \pm \sqrt{34}$$

(5)
$$(x-8)^2-49=0$$

 $(x-8)^2=49$
 $x-8=\pm 7$
 $x=8\pm 7$

$$x = 1, 15$$

6
$$(x+1)^2 = 23$$

 $x+1 = \pm \sqrt{23}$

$$x = -1 \pm \sqrt{23}$$

$$7 (x+6)^2 = 5$$

$$x+6 = \pm \sqrt{5}$$

$$x = -6 \pm \sqrt{5}$$

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

$$(x+2)^2 = 11$$

$$x+2 = \pm \sqrt{11}$$

$$x = -2 \pm \sqrt{11}$$

x = 5, 7

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

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

$$x-6 = \pm 1$$

$$x = 6 \pm 1$$

①
$$(x+3)^2 = 28$$

 $x+3 = \pm 2\sqrt{7}$

$$x = -3 \pm 2\sqrt{7}$$

①
$$(x+4)^2 = 63$$

 $x+4 = \pm 3\sqrt{7}$

(2)
$$(x+8)^2 - 31 = 0$$

 $(x+8)^2 = 31$
 $x+8 = \pm \sqrt{31}$

$$x = -8 \pm \sqrt{31}$$

 $x = -4 \pm 3\sqrt{7}$

$$(3) (x-9)^2 - 24 = 0$$

$$(x-9)^2 = 24$$

$$x-9 = \pm 2\sqrt{6}$$

$$x = 9 \pm 2\sqrt{6}$$

$$(4) (x+9)^2 = 25$$

$$x+9 = \pm 5$$

$$x = -9 \pm 5$$

$$x = -14, -4$$

①5
$$(x-4)^2 - 16 = 0$$

 $(x-4)^2 = 16$
 $x-4 = \pm 4$
 $x = 4 \pm 4$

$$x = 0, 8$$

(16)
$$(x-7)^2 = 44$$

 $x-7 = \pm 2\sqrt{11}$

$$x = 7 \pm 2\sqrt{11}$$

①
$$(x+7)^2 - 32 = 0$$

 $(x+7)^2 = 32$
 $x+7 = \pm 4\sqrt{2}$

$$x = -7 \pm 4\sqrt{2}$$

(18)
$$(x-5)^2 = 20$$

 $x-5 = \pm 2\sqrt{5}$

$$x = 5 \pm 2\sqrt{5}$$