

$$\square (1) 1-7 = -6 //$$

$$(2) (-3)^2 \times 2 - 5 \times 3 = 9 \times 2 - 15 \\ = 18 - 15 \\ = 3 //$$

$$(3) \frac{2}{3} - \frac{7}{10} \div \left(-\frac{7}{15}\right) = \frac{2}{3} - \frac{7}{10} \times \left(-\frac{15}{7}\right) \\ = \frac{2}{3} + \frac{3}{2} \\ = \frac{4+9}{6} = \frac{13}{6} //$$

$$(4) 2(x+3y) - (2x-y) = 2x+6y-2x+y \\ = 7y //$$

$$(5) \sqrt{8} + \sqrt{6} \times \sqrt{3} = 2\sqrt{2} + 3\sqrt{2} \\ = 5\sqrt{2} //$$

$$\square (1) x^2 + 5x = x(x+5) //$$

$$(2) \begin{cases} 5x - 3y = -1 & \text{--- ①} \\ x + 6y = 13 & \text{--- ②} \end{cases}$$

$$\text{①} \times 2 + \text{②} \text{ による}$$

$$10x - 6y = -2$$

$$+ \quad x + 6y = 13$$

$$11x = 11$$

$$x = 1$$

= ①に代入

$$5 - 3y = -1$$

$$-3y = -6$$

$$y = 2 \quad \therefore (x, y) = (1, 2) //$$

$$(3) 3x^2 - 5x + 1 = 0$$

解の公式より

$$x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4 \times 3 \times 1}}{2 \times 3}$$

$$= \frac{5 \pm \sqrt{25 - 12}}{6}$$

$$= \frac{5 \pm \sqrt{13}}{6} //$$

$$(4) 3a + b = 10$$

$$3a = 10 - b$$

$$a = \frac{10 - b}{3} //$$

$$(5) 15 : (x-2) = 3 : 2$$

$$3(x-2) = 15 \times 2$$

$$(x-2) = 5 \times 2$$

$$x = 10 + 2$$

$$x = 12 //$$