

$$\square (1) -7 + 8 \div \frac{1}{2} = -7 + 8 \times 2 \\ = -7 + 16 \\ = 9 //$$

$$(2) 9a + 4b - (a - 3b) \\ = 9a + 4b - a + 3b \\ = 8a + 7b //$$

$$(3) (\sqrt{6} + 5)(\sqrt{6} - 2) = (\sqrt{6})^2 + (5-2)\sqrt{6} + (5) \times (-2) \\ = 6 + 3\sqrt{6} - 10 \\ = 3\sqrt{6} - 4 //$$

$$(4) x - 7 = 9(x + 1) \\ x - 7 = 9x + 9 \\ -16 = 8x \\ -2 = x \\ x = -2 //$$

$$(5) \begin{cases} 3x + 4y = 8 & \text{①} \\ x - 2y = 6 & \text{②} \end{cases}$$

$$\text{①} + \text{②} \times 2 \\ 3x + 4y = 8 \\ +) 2x - 4y = 12 \\ \hline 5x = 20 \\ x = 4$$

$$\text{これを②に代入して} \\ 4 - 2y = 6 \\ -2y = 2 \\ y = -1$$

$$\therefore (x, y) = (4, -1) //$$

$$(6) x^2 + 5x - 3 = 0$$

解の公式より

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

$$x = \frac{-5 \pm \sqrt{25 + 12}}{2}$$

$$x = \frac{-5 \pm \sqrt{37}}{2} //$$

$$(7) \frac{1}{3} \times (6 + 9) = \frac{1}{3} \times 15 \\ = 5 //$$

(8)



2個とも赤の確率は

$$\frac{3}{5} \times \frac{2}{4} = \frac{3}{10}$$

$$\text{余事象より } 1 - \frac{3}{10} = \frac{7}{10} //$$

(9)

