

$$\text{① (1) ① } -2-5 = -7 //$$

$$\text{② } 36 \div (-3^2) = 36 \div (-9) \\ = -4 //$$

$$\text{③ } \sqrt{3}(\sqrt{18} - \sqrt{2}) = \sqrt{3}(3\sqrt{2} - \sqrt{2}) \\ = \sqrt{3}(2\sqrt{2}) \\ = 2\sqrt{6} //$$

$$\text{④ } 2x+y + \frac{x-2y}{3} = \frac{6x+3y+x-2y}{3} \\ = \frac{7x+y}{3} //$$

$$\text{(2) } (2n+1)+2 = 2n+3 //$$

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

②に①を代入し

$$2x-3(x-4)=5$$

$$2x-3x+12=5$$

$$-x = -7$$

$$x = 7$$

これを①に代入

$$y = 7-4$$

$$= 3$$

$$\therefore (x, y) = (7, 3) //$$

$$\text{(4) } 2x^2+x-2=0$$

解の公式より

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

$$x = \frac{-1 \pm \sqrt{1+16}}{4}$$

$$x = \frac{-1 \pm \sqrt{17}}{4} //$$

$$\text{(5) } \sqrt{5} < \sqrt{a} < 2\sqrt{2}$$

$$\sqrt{5} < \sqrt{a} < \sqrt{8}$$

$$\therefore 2 \leq a = 6, 7 //$$

(6)

