

$$1. (1) \frac{5}{x^2} \text{ 個} \quad (2) \frac{-4}{x^2} \quad (3) \frac{3}{x^2} \text{ 次} \quad (4) \frac{4}{x^2} \text{ 次}$$

$$2. (1) \frac{x+2y}{x^2} \quad (2) \frac{2x^2-2x+5}{x^2} \quad (3) \frac{2x-4y}{x^2} \quad (4) \frac{2/x-2y}{x^3}$$

$$(5) \frac{6x^2y^2}{x^3} \quad (6) \frac{2xy}{x^3} \quad (7) \frac{3x-2}{x^3} \quad (8) \frac{-8y+6}{x^3} \quad (9) \frac{5x-9y}{x^3} \quad \frac{5x-9y}{4}$$

$$3. (1) \frac{x-7y}{x^4} \quad (2) \frac{x+y^3}{x^3} \quad y = \frac{1}{3} - 2x, y = -\frac{6x-1}{3} \text{ 可}$$

$$4. (1) \frac{-4}{x^3} \quad (2) \frac{12}{x^3} \quad (3) \frac{y = \frac{1-6x}{3}}{x^3} \quad (4) \frac{x = \frac{4y+1}{5}}{x^3}$$

$$5. (1) \text{あ} \frac{2n}{x^2} \quad \text{い} \frac{m+n}{x^2} \quad \text{う} \frac{\text{偶数}}{x^2} \quad \text{え} \frac{\text{偶数}}{x^2}$$

$$(2) \text{お} \frac{2n+1}{x^2} \quad \text{か} \frac{m+n+1}{x^2}$$

$$\text{き} \frac{2\text{つの奇数の和は偶数}}{x^2} \quad \text{である}$$

$$6. \text{あ} \frac{100a+10b+c}{x^2}$$

$$\text{い} \frac{100a+10b+c - (a+b+c)}{x^4}$$

$$= 99a+9b \quad \text{「①」}$$

$$= 9(11a+b) \quad \text{「②」}$$

$$11a+b \text{ は整数なので、} 9(11a+b) \text{ は } 9 \text{ の倍数である。} \quad \text{「①」}$$

$$\text{う} \frac{9}{x^3}$$

$$7. (1) \frac{5}{x^2} \quad (2) \frac{3}{x^3} \text{ 組} \quad (3) \frac{b = 1, 2, 4}{x^3}$$

$$8. (1) \frac{x=3 \quad y=2}{x^3} \quad (2) \frac{x=4 \quad y=1}{x^3} \quad (3) \frac{x=5 \quad y=-4}{x^3}$$

$$9. (7) (i) \frac{16}{x^2} \text{ m} \quad (ii) \text{中央値} \frac{22.5}{x^2} \text{ m} \quad \text{最頻値} \frac{23}{x^2} \text{ m} \quad (1) \frac{4}{x^3}$$