

数学

1

解答

(1) $(x+y+4)(x+y+9)$

(2) $-\frac{3}{2} < x \leq -\frac{7}{6}, \quad \frac{5}{6} \leq x < \frac{7}{6}$

(3) 平均値：96.8 中央値：95

2

解答

(1) $(2, -9)$ (2) $(2, 0)$

(3) $\frac{a+4-\sqrt{a^2+36}}{2}$ (4) $\frac{9}{2}\sqrt{a^2+36}$

3

解答

(1) $\frac{1}{2}$ (2) $\frac{\sqrt{13}}{6}$ (3) $\frac{17}{26}$ (4) $\frac{\sqrt{43}}{48}$

4

解答

(1) $\frac{104}{25}$ (2) $\alpha + \beta = 5a + 14, \quad \alpha\beta = 3a + 7$

(3) -26 (4) -3

5

解答

(1) $\frac{1}{8}$ (2) $\frac{3}{8}$ (3) $\frac{3}{16}$ (4) $\frac{3}{7}$