

□1 (1) $x = -\frac{1}{2}, y = -\frac{3}{2}$

(2) $\frac{6\sqrt{3}}{7}$

(3) $\overrightarrow{OP} = \frac{4}{7}\vec{a} + \frac{1}{7}\vec{b}$

(4) $\frac{1}{16} < x < 4096$

(5) $\frac{21}{4}$

(6) 1) $\frac{7}{3}$

2) $b_n = 2^{3^n}$

□2 (1) $-4 < a < 0$

(2) $(4, 0), (-a, -a^2 - 4a), (a, a^2 - 4a)$

(3) $S = \frac{1}{6}a^3 + 6a^2 + 8a + \frac{32}{3}$

(4) $a = -12 + 8\sqrt{2}$

3 (1) $|-2x + 1|$

(2) $\frac{1}{2}$

(3) $-2x + 1$

(4) $2x - 1$

(5) $|2x - 3|$

(6) $\frac{3}{2}$

(7) $-2x + 3$

(8) $2x - 3$

(9) $a < 0$

(10) $a = 0$

(11) $a > 1$ (10), (11) (順不同)

(12) $a = 1$

(13) $0 < a < 1$