

【解答】

1 (1) -8 (2) $a - 9$ (3) -22 (4) $\sqrt{2}$ (5) $\frac{25}{4}$
(6) $(3x + 5y)(3x - 5y)$ (7) $x = 1, x = -7$ (8) 6 (9) $\frac{1}{9}$ (10) 5π

2 (1) ① 2 乗に比例 ② 比例定数 ③ n^2 ④ 放物線 ⑤ y 軸 ⑥ 原点
(2) ① 拡大 ② 縮小 ③ 相似 ④ 相似比

3 (1) ① $y = 8x^2$ ② $y = 128$ (2) $a = -\frac{1}{4}$ (3) $0 \leq x \leq 8$ (4) -12

4 (1) $y = 3x^2$ (2) $a = 3, b = 0$ (3) $a = -1$

5 (1) $y = 5x^2$ (2) 80m (3) 8 秒後 (4) 35m/秒 (5) $t = 12$

6 (1) $a = \frac{1}{2}, b = 2$ (2) $y = x + 4$ (3) 12

7 (1) B : 2 秒後 C : 5 秒後 (2) $y = \frac{15}{2}x^2, 0 \leq x \leq 30$ (3) $y = -10x + 50$

