

【】 速さの問題

[解答 1](1)  $y = \frac{1}{4}x^2$  (2) 8m (3) Aの方が 3m/s 速い。

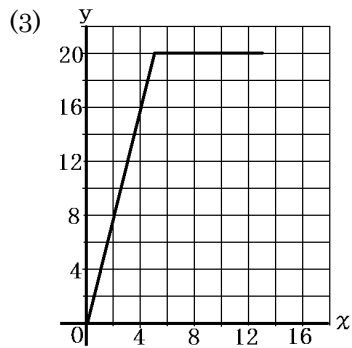
[解答 2](1)  $a = \frac{1}{4}$  (2) 2m/s (3) 8 秒後 (4) 12m

【】 動点の問題

[解答 3](1)  $y = x^2$  ②  $0 \leq x \leq 10$  (2)  $2\sqrt{3}$  秒後

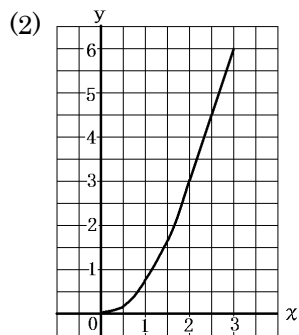
[解答 4](1)  $y = 3x^2$  (2) 5 秒後

[解答 5](1)①  $y = 4x$  ②  $0 \leq x \leq 5$  (2)①  $y = 20$  ②  $5 \leq x \leq 13$

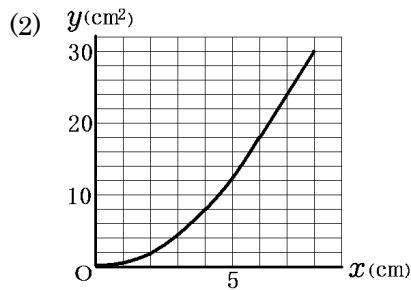


[解答 6](1)①  $y = x^2$ ,  $0 \leq x \leq 3$  ②  $y = 3x$ ,  $3 \leq x \leq 8$  (2)  $12\text{cm}^2$

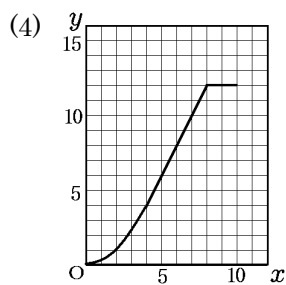
[解答 7](1)①  $y = \frac{3}{4}x^2$  ②  $y = 3x - 3$



[解答 8](1)  $0 \leq x \leq 6 : y = \frac{1}{2}x^2$     $6 < x \leq 8 : y = 6x - 18$    (3)  $\frac{19}{3} \text{ cm}$



[解答 9](1)  $y = 1$    (2)  $0 < x \leq 4$    (3)  $y = 8$



【】面積

[解答 10](1)  $A(-2, 4)$ ,  $B(3, 9)$    (2) 15

[解答 11](1)  $y = 2x + 4$    (2) 6   (3) 9

[解答 12](1)  $a = \frac{1}{2}$    (2)  $y = x + 4$    (3) 12   (4)  $\left(3, \frac{9}{2}\right)$

[解答 13]  $a = 5$

[解答 14](1)  $\frac{1}{4}$    (2)  $y = \frac{1}{2}x + 2$    (3)  $3\sqrt{5}$    (4)  $\frac{4\sqrt{5}}{5}$

【】面積の二等分

[△OAB の二等分]

[解答 15]  $y = -5x$

[解答 16](1)  $a = \frac{1}{2}$    (2)  $y = 5x$

[解答 17](1)  $a = 1$    (2)  $y = -2x + 3$    (3)  $6 \text{ cm}^2$    (4)  $y = -5x$

[解答 18](1)  $a = 1$  (2)  $y = 2x + 8$  (3) 24 (4)  $y = \frac{8}{3}x + \frac{16}{3}$

[台形の面積の二等分]

[解答 19](1)  $a = 1$  (2)  $y = x + 6$  (3)  $\left(\frac{25}{12}, \frac{97}{12}\right)$

[解答 20](1)  $a = \frac{2}{9}$  (2)  $y = \frac{4}{3}x - \frac{4}{3}$

[平行四辺形の面積の二等分]

[解答 21](1)  $\frac{4}{9}$  (2)  $y = \frac{2}{3}x + \frac{8}{3}$

[解答 22]  $y = 2x + 1$

[解答 23]  $y = 5x$

【1】 平行四辺形

[解答 24]  $a = \frac{1}{3}$

[解答 25]  $a = \frac{1}{3}$

[解答 26] P(3, 3)

[解答 27] 3

[解答 28]  $(-\sqrt{5}, 5)$

[解答 29](1)  $a = \frac{1}{2}$  (2)  $y = 3x + 8$  (3)  $\left(0, \frac{33}{2}\right)$

【2】 線分比・面積比

[解答 30]  $(-2\sqrt{2}, 8)$

[解答 31]  $a = \frac{3}{4}$

[解答 32]  $a = -1$

[解答 33]  $a = -12$

[解答 34]2 : 1

[解答 35](1)  $a = \frac{1}{3}$ ,  $b = 2$  (2)  $(-6, 0)$  (3) 5 : 4

[解答 36]1 : 9

[解答 37](1)  $y = -x + 4$  (2)  $(2\sqrt{2}, 4)$  (3)  $y = \frac{5}{3}x + \frac{20}{3}$

【】等積変形

[解答 38](1, 1)

[解答 39]  $a = \frac{10}{13}$

[解答 40]  $a = \frac{1}{2}$

[解答 41](1)  $\frac{1}{4}$  (2)  $y = -x + 3$  (3) 12

[解答 42]  $c = 12$

[解答 43](1)  $a = \frac{3}{4}$  (2) 8

【】座標 $t \rightarrow$ 方程式

[解答 44]  $B(2, 1)$

[解答 45]  $\frac{8}{5}$

[解答 46]  $\frac{2}{3}$

[解答 47]  $\frac{22}{3}$

[解答 48]  $\left(7, \frac{49}{3}\right)$

[解答 49](3, 9)

[解答 50](1) 9倍 (2) (3, 9)

[解答 51](1, 2)

【】 格子点

[解答 52](1) 7 個 (2)  $-6 \leq b < -4$