

- (1) a=3 のとき, m の値と M の値を求めよ.
- (2) a = -1 のとき, m の値と M の値を求めよ.
- (3) mをaを用いて表せ.
- (4) Mを aを用いて表せ.

$$f(x) = -7c^{2} + 4ax$$

$$= -(x^{2} - 4ax)$$

$$= -((x - 2a)^{2} - 4a^{2})$$

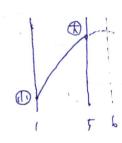
$$= -(x - 2a)^{2} + 4a^{2}$$

$$= x = 2a.$$

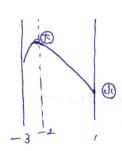
$$Th. (2a, 4a^{2}).$$

(1) A=3 ant. $+(x)=-(x-6)^2+36$ R_{4} $\leq x \leq 5$

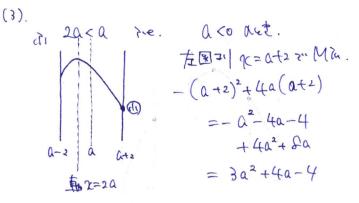
軸 2=6.

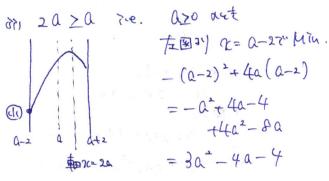


(2)
$$Q = -1$$
 and $\dot{T}(x) = -(x+2)^2 + 4$
 $\dot{R} = \frac{1}{2} \times \frac{1}{2} = -2$.



$$M = 4$$
 $M = -5$



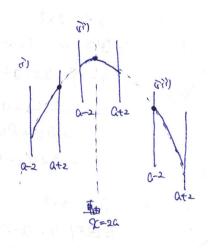


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$$m = \int 3a^{2} + 4a - 4 \quad (a < 0)$$

$$3a^{2} - 4a - 4 \quad (o \le a)$$

$$(75a)$$



aiii
$$2a < a-2$$

i.e. $a < -2$ a set

$$+ 32$$

$$7c = a-22$$
Mayo
$$3a^2 - 4a - 4$$

$$M = \begin{cases} 3a^{2} - 4a - 4 & (a < -2) \\ 4a^{2} & (-2 \le a \le 2) \end{cases}$$

$$3a^{2} + 4a - 4 & (2 < a)$$

定義政、軸ともに動く10のつるアンで、たるかきことは同じる