

(3)

- (1) Q=0 のとき, f(x) の最小値を求めよ.
- \cdot (2) f(x) の最小値 m(a) を求めよ.
- (3) f(x) の最大値 M(a) を求めよ.

(4)
$$g(a) = M(a) - m(a)$$
 とする. $y = g(a)$ のグラフを描け.

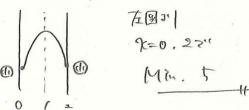
$$f(x) = -x^{2} + 2x + 5$$

$$= -(x^{2} - 2x) + 5$$

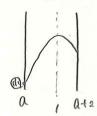
$$= -(x - 1)^{2} + 6$$

$$= -(x - 1)^{2} + 6$$

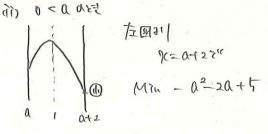
(1) ひ=のかき



(2) 11, Q ≤ O one €

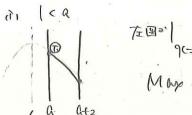


た回かり タモロマッ Min - Q2+2Q+5

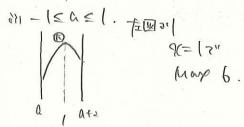


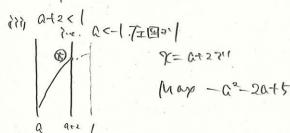
rens. B

$$|M(a)| = \begin{cases} -\alpha^2 + 2\alpha + \frac{1}{2} & (\alpha \le 0) \\ -\alpha^2 - 2\alpha + \frac{1}{2} & (\alpha < \alpha) \end{cases}$$



7=19=1 9c=0?" May - a2+2a+5





 $|| \int_{-\alpha^2 + 2\alpha + 1}^{-\alpha^2 - 2\alpha + 1} (|| \alpha - 1|) d\alpha = \int_{-\alpha^2 + 2\alpha + 1}^{-\alpha^2 - 2\alpha + 1} (|| \alpha - 1|) d\alpha$

