66 a を定数とする. 2 次関数 $f(x) = x^2 - 2ax + 3 \ (-1 \le x \le 3)$ について、以下の問いに答えよ.

(1) a = 1 のとき, f(x) の最大値を求めよ.

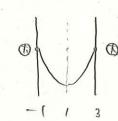
(2) f(x) の最大値 M(a) を求めよ.

(3) f(x) の最小値 m(a) を求めよ.

(4) y = m(a) のグラフを描け.

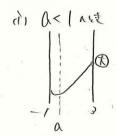
$$+(90) = 90^2 - 290 + 3$$

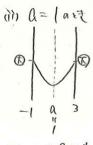
$$= (90 - 1)^2 + 2$$



(2)
$$f(x) = \chi^2 - 20\chi + 3$$

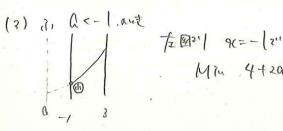
= $(\chi - 0)^2 + 3 - 0^2$
= $\chi = 0$.

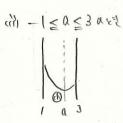




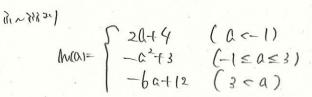


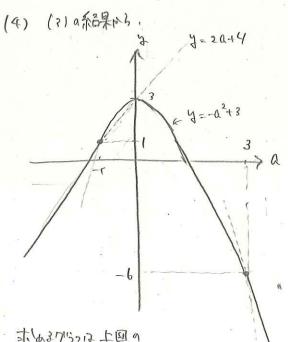
$$M(a) = \begin{cases} (2-6a) & (a < 1) \\ 6 & (a = 1) \\ 4 + 2a & (1 < a) \end{cases}$$











ましゅるからって 上回の 東海部