1. 2

(c) Step 1.

$f(x) = (x^2-1)^3$ on $[-1, 3]$

Step 2

① $a = -1$, $b = 3$

② $f'(x) = 3(x^2-1) \cdot 2x$

$f'(c) = 0$

$c = \pm 1, 0$

Step 3

$f(-1) = 0$

$f(3) = \cancel{8}$ 512 ← abs. max

$f(1) = 0$

$f(0) = -1$ ← abs. min