Quiz 13 | Name: Solution

Sketch the graph of $f(x)$ if

Domain of $f = \mathbb{R}$

$f(0) = 0$

$f(x) = 0$ at $x = 0$ & $x = 3$

$\lim_{x \to \infty} f(x) = \infty$ $\quad \lim_{x \to -\infty} f(x) = -\infty$

$f'(x) = 0$ at $x = 0$ & $x = 2$

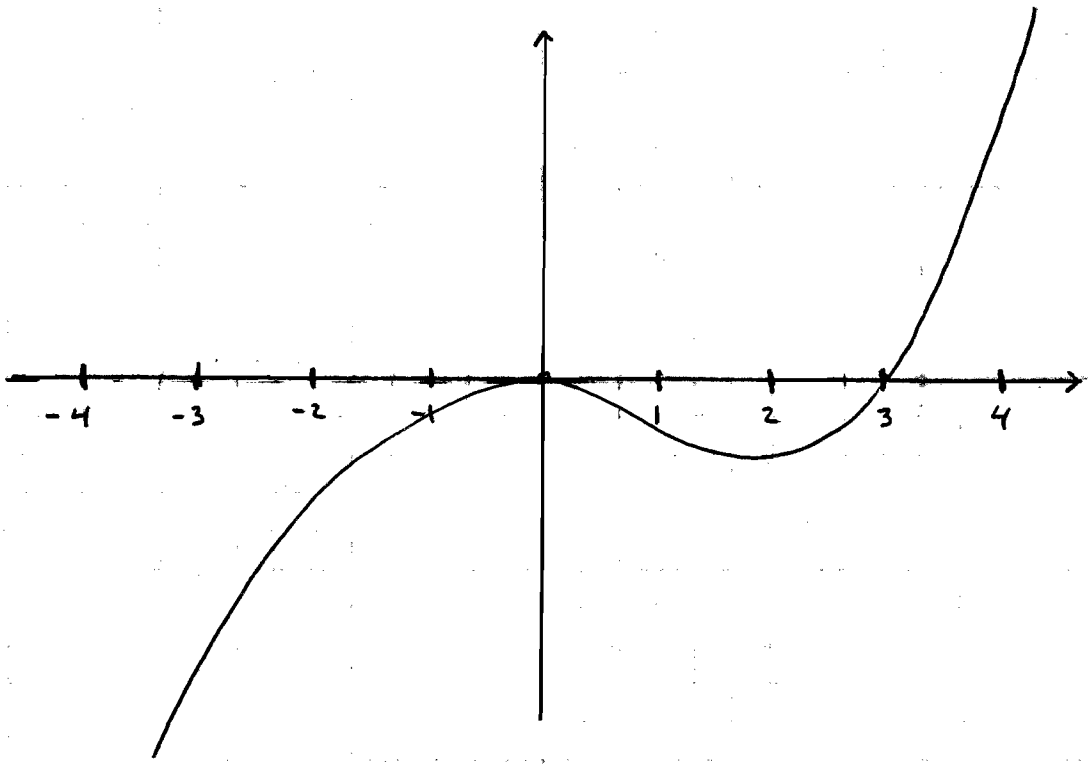
$f'(x) > 0$ on $(-\infty, 0), (2, \infty)$

$f'(x) < 0$ on $(0, 2)$

$f''(x) = 0$ at $x = 1$

$f''(x) < 0$ on $(-\infty, 1)$

$f''(x) > 0$ on $(1, \infty)$



3-0235 — 50 SHEETS — 5 SQUARES
3-0236 — 100 SHEETS — 5 SQUARES
3-0237 — 200 SHEETS — 5 SQUARES
3-0137 — 200 SHEETS — FILLER
COMET