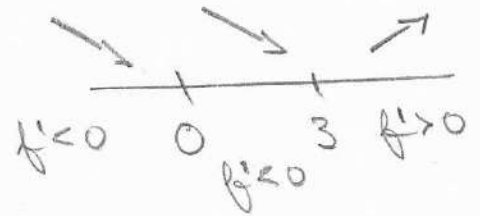


5. minitest

$$f(x) = x^4 - 4x^3 = x^3(x-4)$$

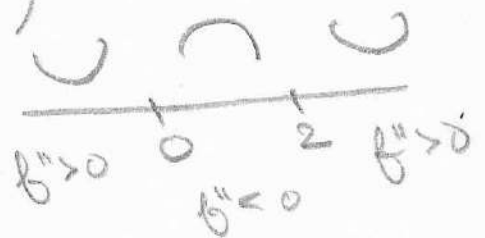
$$f'(x) = 4x^3 - 12x^2 = 4x^2(x-3)$$



$$f(3) = 3^3 \cdot (3-4) = -27$$

lok. min. $[3; -27]$

$$f''(x) = 12x^2 - 24x = 12x(x-2)$$



$$f(0) = 0$$

$$f(2) = 2^3 \cdot (2-4) = -16$$

infleksi body $[0; 0]$, $[2; -16]$

$$\lim_{x \rightarrow \infty} f(x) = (\infty)^3 \cdot (\infty - 4) = +\infty$$

$$\lim_{x \rightarrow -\infty} f(x) = (-\infty)^3 \cdot (-\infty - 4) = +\infty$$

