

$$f(x) = x^4 - 4x^3 + 6x^2 - 4x + 24$$

$$f'(x) = 4x^3 - 12x^2 + 12x - 4 = 0$$

$$\Leftrightarrow$$

$$x^3 - 3x^2 + 3x - 1 = 0$$

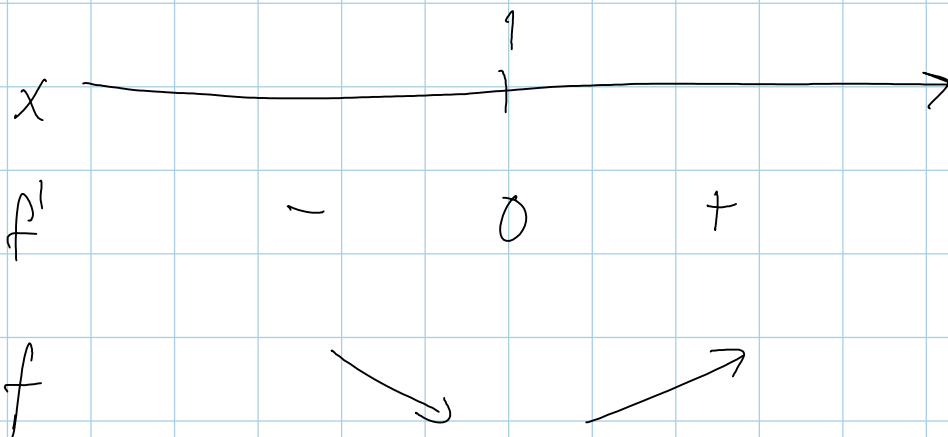
$$\Leftrightarrow$$

$$(x-1)^3 = 0$$

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$$f''(x) = 12x^2 - 24x + 12 \quad \text{så}$$

$f''(1) = 0$  (säger inget, teckenstudie i stället)



$$f(1) = 1 - 4 + 6 - 4 + 24 = 23$$

Lokal max i (1, 23)