opg. 14

$$f(x) = x + \frac{16}{x}, \quad x > 0$$

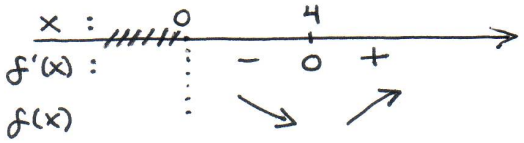
a) $f'(x)$ bestemmes og der redegøres for, at $f(x)$ har et minimum:

$$f'(x) = 1 - \frac{16}{x^2}$$

$f'(x) = 0$ løses:

SOLVE $(1 - \frac{16}{x^2} = 0, x)$ giver ~~$x = -4$~~ $\vee$ $x = 4$

monotonilinje:



x	2	6
$f'(x)$	−3	0,56

Ja, $f(x)$ har globalt minimum i $x = 4$: $f(4) = 4 + \frac{16}{4} = \underline{\underline{8}}$