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Opgave 308

$$f(x) = \sqrt{x}, \quad x \geq 0$$

Opgave A

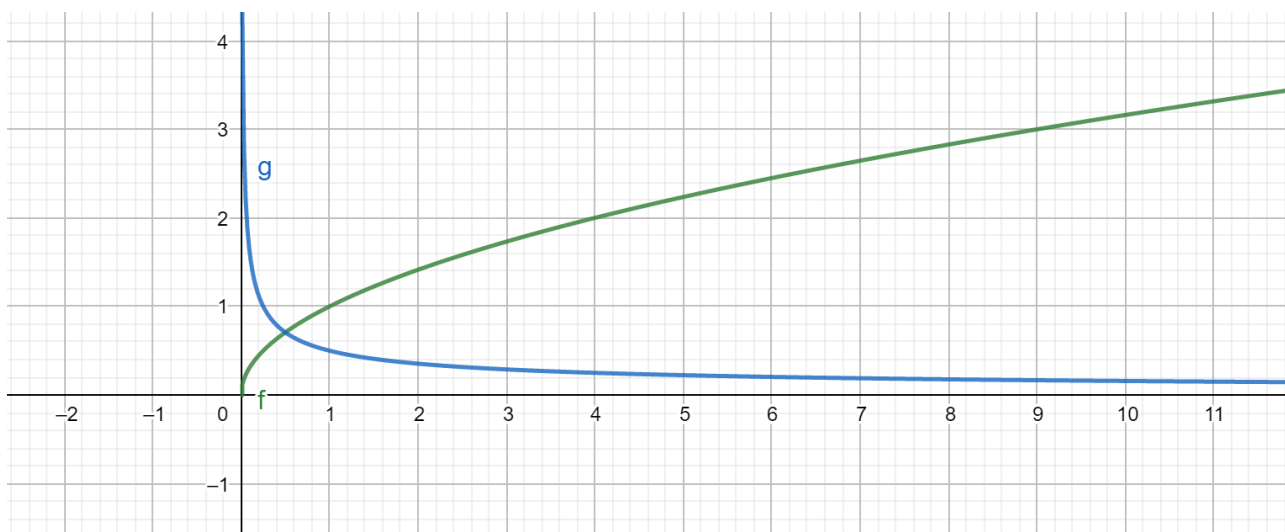
$$f(x) = \sqrt{x}$$

$$f(x) = x^{0.5} \quad \text{Lav funktionen om}$$

$$f'(x) = n \cdot x^{n-1}$$

$$f'(x) = 0.5 \cdot x^{0.5-1}$$

$$f'(x) = 0.5 \cdot x^{-0.5}$$



Opgave B

$$f'(0.5) = 0.707$$

$$f'(1) = 0.5$$

$$f'(2) = 0.3536$$