

A 3252

$$y = e^{2x} + e^{2x}$$

$$y' = e^{2x} + 2e^{2x}$$

$$\begin{aligned} y &= 3e^{2x} + 5e^{-0,4x} \\ &= 3e^{2x} - 2e^{-0,4x} \end{aligned}$$

3253

a)

$$f(x) = e^{0,25x}$$

$$f'(x) = 0,25e^{0,25x}$$

$$f'(2) = 0,25e^{0,25 \cdot 2}$$

$$= 0,25e^{0,5}$$

$$= 0,412$$

eller  $0,25e^{\frac{1}{2}}$

$$= 0,25\sqrt{e}$$

$$= \frac{\sqrt{e}}{4}$$

b)

$$f(x) = 4e^{-0,5x}$$

$$f'(x) = -2e^{-0,5x}$$

$$f'(2) = -2e^{-0,5 \cdot 2}$$

$$= -2e^{-1}$$

$$= -\frac{2}{e}$$