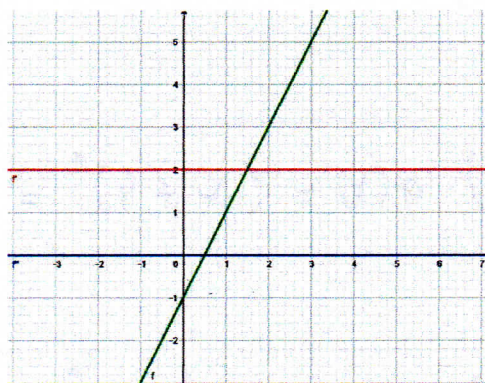


$$\text{Nr. 3) } f(x) = 2x - 1$$

$$f'(x) = 2$$

$$f''(x) = 0$$

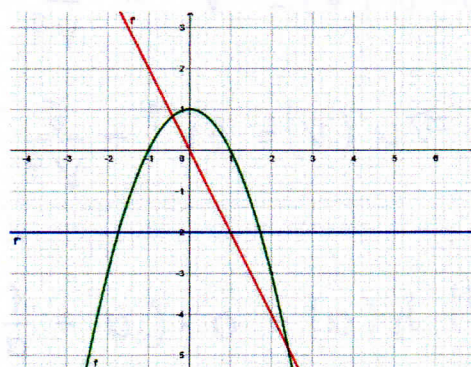
Schaubild: grün $y = f(x)$
 rot $y = f'(x)$
 blau $y = f''(x)$



$$\text{b) } f(x) = 1 - x^2$$

$$f'(x) = -2x$$

$$f''(x) = -2$$



$$\text{c) } f(x) = \frac{1}{3}x^3$$

$$f'(x) = x^2$$

$$f''(x) = 2x$$



$$\text{d) } f(x) = \frac{1}{x} = x^{-1}$$

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

$$f''(x) = +2x^{-3} = \frac{2}{x^3}$$

