

Érintő az $y = x^3 - 8x$ függvénygörbéhez az $x_0 = 3$ pontban.

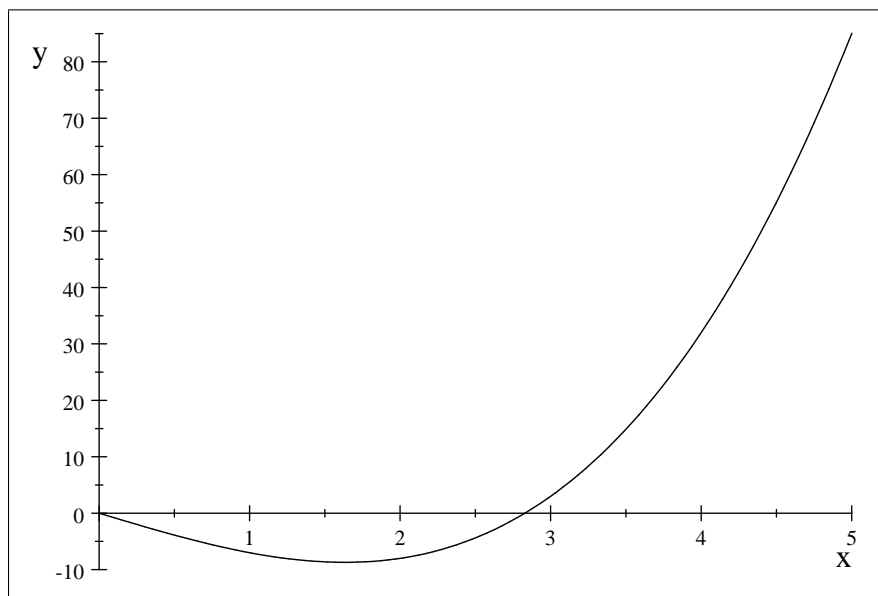
$$\begin{aligned}f(x) &= x^3 - 8x \\f'(x) &= 3x^2 - 8 \\f(3) &= 3^3 - 8 \cdot 3 = 3 \\f'(3) &= 3 \cdot 3^2 - 8 = 19\end{aligned}$$

Az érintő egyenlete:

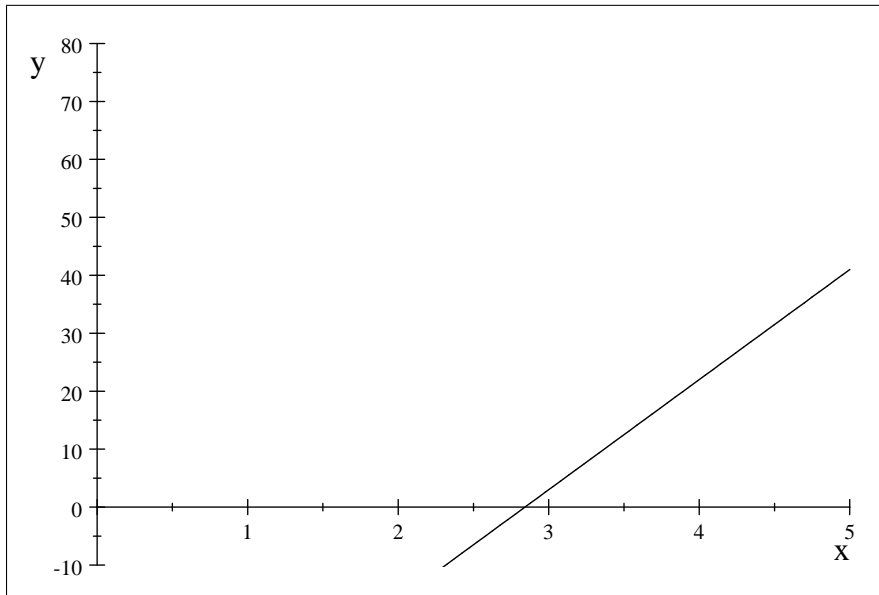
$$y - f(x_0) = f'(x_0)(x - x_0)$$

azaz

$$\begin{aligned}y - 3 &= 19(x - 3) \\x^3 - 8x\end{aligned}$$



$19x - 54$



$$(y - 19x + 54)(y - x^3 + 8x) = 0$$

