

Kalkulus, deriválás gyakorló feladatok

$$(1) \left(\frac{\sin(2x)}{\sin(2x) + \cos(2x)} \right)' =$$

$$(2) \left(\sqrt{\ln(\cos(x+1))} \right)' =$$

$$(3) \left((1-x) \operatorname{arc\,tg}(x^2) \right)' =$$

$$(4) \left(\operatorname{arc\,tg} \left(\frac{1}{x} \right) \right)' =$$

$$(5) \left(\sqrt[3]{\sqrt{x^3} \sqrt{x}} \right)' =$$

$$(6) \left(x^3 e^{\sin(3x)} \right)' =$$

$$(7) \left(\sqrt[4]{\ln(x+2) + 4 \cos \left(\frac{x}{2} \right)} \right)' =$$

$$(8) \left(\ln \left(\frac{x}{3} \right)^2 \right)' =$$

$$(9) \left(\ln^2 \left(\frac{x}{3} \right) \right)' =$$

$$(10) \left(\frac{1}{\sqrt{x} e^{-x^2}} \right)' =$$