

Übungen in Analysis \diamond **Exercices en Analyse** \diamond **T. B2** \diamond **II / 2**

Probl. 1	$f(x) = x^2 \cdot \cos(x)$	$\rightsquigarrow f'(x) = ?$
Probl. 2	$f(x) = (\sin(x))^3$	$\rightsquigarrow f'(x) = ?$
Probl. 3	$f(x) = 3x - \frac{x}{\cos(x)}$	$\rightsquigarrow f'(x) = ?$
Probl. 4	$f(x) = x \cdot \sqrt{x}$	$\rightsquigarrow f'(x) = ?$
Probl. 5	$f(x) = \frac{1}{x^2} + \frac{x^2}{x^2 + 2}$	$\rightsquigarrow f'(x) = ?$
Probl. 6	$f(x) = \sin(2x) (= 2 \sin(x) \cdot \cos(x))$	$\rightsquigarrow f'(x) = ?$
Probl. 7	$f(x) = \frac{1}{x} \cdot \frac{\cos(x)}{\sin(x)}$	$\rightsquigarrow f'(x) = ?$