

Übungen in Analysis \diamond **Exercices en Analyse** \diamond **T. B2** \diamond **II / 6**

Probl. 1 $f(x) = 3 \sin(x) + 7 \cos(x) \rightsquigarrow f'(x) = ?$

Probl. 2 $f(x) = 3 \sin(x) \cdot \cos(x) \rightsquigarrow f'(x) = ?$

Probl. 3 $f(x) = \frac{e^x}{\sin(x)} \rightsquigarrow f'(x) = ?$

Probl. 4 $f(x) = \sqrt{x} \rightsquigarrow f'(x) = ?$

Probl. 5 $f(x) = \frac{x^2}{x^3 + 1} \rightsquigarrow f'(x) = ?$

Probl. 6 $f(x) = \frac{\sin(x)}{1 + \sin(x)} \rightsquigarrow f'(x) = ?$

Probl. 7 $f(x) = \sin^2(x) + \cos^2(x) \rightsquigarrow f'(x) = ?$