

Übungen in Analysis \diamond Exercices en Analyse \diamond T. I1 \diamond II / 5

- Probl. 1** $\int_0^{\pi} \sin\left(\frac{\pi}{6} t\right) + \frac{\pi}{8} dt = ?$
- Probl. 2** $\int_1^2 x \cdot \ln(5x^2 + 8) dx = ?$
- Probl. 3** $\int_1^e x^2 \cdot \ln(x^3) dx = ?$
- Probl. 4** $\int_1^{\pi} \frac{1}{x(x+1)} dx = ?$
- Probl. 5** $\int_1^{\pi} \frac{1}{x(x+1)^2} dx = ?$
- Probl. 6** $\int_5^6 \frac{1}{(x+2)(x^3+x^2-x-1)} dx = ?$
- Probl. 7** $\int_5^6 \frac{1}{x^4-x^3+x^2-x-1} dx = ?$