Quiz   **Name**

1. Find the general antiderivative (indefinite integral) $\int (\cos x)e^{3\sin x}\,dx$.

2. Find the general antiderivative (indefinite integral) $\int x^2 \ln x \, dx$.

3. Write the fraction $\dfrac{3x-7}{(x-1)(x+6)}$ as a sum of two simpler ones and then solve $\int \dfrac{3x-7}{(x-1)(x+6)}\,dx$.