1. Find a function $f(x)$ such that $f'(x) = \cos(x)e^{\sin(x)}$ and $f(\pi) = 0$.

2. Evaluate the indefinite integral $\int \frac{3}{1 - 2x} \, dx$.

3. Evaluate the indefinite integral $\int \frac{5}{x^2 - 2x + 5} \, dx$. 