## Quiz

1. Solve $\int\left(x^{2}-1\right)^{9} 3 x d x$ with the method of substitution.
2. Solve $\int x^{3} \ln x d x$ with the method of integration by parts.
3. Consider the function $f(x)=x^{3}-2 x^{2}+3$. Suppose that the function has an inverse and let $g(x)=f^{-1}(x)$. Find the values $g(2)$ and $g^{\prime}(2)$.
