

## Applied Calculus – Quiz 11

1. Compute  $\int \left( \frac{5}{\sqrt[3]{x^2}} - \frac{1}{2}e^{3x} \right) dx$

2. Compute  $\int \frac{6x^3 - x^2 + x - 1}{x^2} dx$

3. If  $f'(x) = x^3 - 1$  and  $f(2) = 6$ , find  $f(x)$ .