

QUIZ 5

Compute the following:

1. (4 points) $\int x^2 \left(x^3 - \frac{1}{x^2} + \sqrt{x} \right) dx$

2. (3 points) $\frac{d}{dx} \int_1^x e^{\cos(t^2)} dt$

3. (3 points) $\frac{d}{dx} \int_2^{x^3} \frac{1}{1+x^2} dt$