

Quiz 5

Name: _____

Find the following antiderivatives and definite integrals and circle your answers:

1. $\int x^3 \sqrt{5 + x^4} dx$

2. $\int \frac{e^{2t} dt}{e^{2t} + 7}$

3. $\int \frac{dv}{\sqrt{1 + 16v^2}}$

4. $\int_0^{\pi/2} \frac{\sin(\theta) d\theta}{1 + \cos^2(\theta)}$

5. $\int_0^1 \alpha^2 \sin(\pi \alpha^3) d\alpha$