

Math 2320 - Quiz 3

Name: _____

Compute the following integrals.

1. $\int x^3 \sqrt{-x^4 + 7} \, dx$
2. $\int x^3 e^{-x^4+7} \, dx$
3. $\int \frac{x^3}{-x^4+7} \, dx$
4. $\int e^{2x} \sin(e^{2x}) \, dx$
5. $\int \cos^2(x) \sin(x) \, dx$ Hint: let $u = \cos(x)$.
6. $\int \frac{e^x}{1+e^x} \, dx$
7. $\int \frac{e^x}{1+e^{2x}} \, dx$

Do the following from the text book.

- 6.1 23, 26
- 6.2 5, 13, 24, 27
- 6.3 23, 25, 31, 33