

Math 142 Group Quiz 4

Names: _____

Do as many of these as possible! (Use another paper for scratch work, write answers here.)

1. $\int_1^e \ln(x^2) dx =$

2. $\int \cos^4 x dx =$

3. $\int \frac{1}{x \ln x} dx =$

4. $\int \frac{1}{x^3 + x} dx =$

5. $\int x^3 e^{3x} dx =$

6. $\int \frac{x^2}{\sqrt{1-x^2}} dx =$

7. $\int \frac{e^x}{1+e^x} dx =$

8. $\int \frac{1}{2+x^2} dx =$

9. $\int \sqrt{1+e^x} dx =$

10. $\int (2^x + \log_2 x) dx =$

11. $\int \frac{3}{(x-3)(x-2)} dx =$

12. $\int x e^{-x^2} dx =$

13. $\int x^3 e^{-x^2} dx =$

14. $\int e^{-x^2} dx =$

15. $\int \arctan x / (\sqrt{1+x^2})^3 dx =$