

Name: _____

MA 2310: Quiz 11

1. $\int \sin(3x) \, dx$

2. $\int e^{5x+1} \, dx$

3. $\int \sec^2(4x) \, dx$

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

5. $\int \tan(x) \, dx$. Hint $\tan(x) = \frac{\sin(x)}{\cos(x)}$

6. $\int x \sin(3x^2 + 1) \, dx$

7. $\int x \sqrt{x^2 + 14} \, dx$

8. $\int (2x+1) + \sqrt{x^2 + x + 3} \, dx$

9. $\int x^2 \sqrt{1 - 4x^3} \, dx$

10. $\int \sin(4x) \cos(4x) \, dx$

11. $\int \sin(4x) \cos^2(4x) \, dx$

12. $\int \sec(4x) \tan(4x) \, dx$

13. $\int \tan(4x) \, dx$

14. $\int \frac{e^x}{1 + e^x} \, dx$

15. $\int \frac{e^x}{1 + e^{2x}} \, dx$