

Calculus Worksheet #4 Unit 9 page 1 _____

Integrate each of the following. Some can be integrated as a power function ($\int u^n du$). You will need to use algebraic substitution on the others.

1. $\int x(x - 5)^4 dx =$ _____

2. $\int x(2x + 1)^3 dx =$ _____

3. $\int x(5x - 2)^5 dx =$ _____

4. $\int x(x^2 + 5)^4 dx =$ _____

Calculus Worksheet #4 Unit 9 page 2

Integrate each of the following. Some can be integrated as a power function ($\int u^n du$). You will need to use algebraic substitution on the others.

5. $\int \sqrt{3x-2} dx =$ _____

6. $\int x\sqrt{5x^2+1} dx =$ _____

7. $\int x\sqrt{2x+3} dx =$ _____

8. $\int \frac{xdx}{\sqrt{4x-5}} =$ _____