

2 pts. Each
No Decimals!

Name: _____

Homework #2
Integration by Substitution

Answers

1. $\int 4x(2x^2 + 1)^7 dx$

2. $\int (3x^2 - 2x + 1)(x^3 - x^2 + x)^4 dx$

3. $\int \frac{3x^2+2}{(x^3+2x)^2} dx$

4. $\int 3x^2(x^3 + 2)^{\frac{3}{2}} dx$

5. $\int \frac{x^2}{\sqrt{x^3-1}} dx$

6. $\int (x^3 - 2x)^2 (3x^2 - 2) dx$

7. $\int \frac{4x}{(2x^2 + 3)^3} dx$

8. $\int 3t^2 \sqrt{t^3 + 2} dt$

9. $\int x(x^2 - 1)^9 dx$

10. $\int_0^1 20x(2x^2 + 1)^4 dx$

11. $\int_{-1}^0 12(x^2 - 2x)(x^3 - 3x^2 + 1)^3 dx$