

MATH 122 WORKSHEET 11

Show all work for full credit.

1. Evaluate the integral.

$$\int (12x^5 - 9x^2 + 5x - 3) dx$$

2. Evaluate the integral.

$$\int \left(\frac{5}{x} + \frac{2}{x^5} \right) dx$$

3. Evaluate the integral.

$$\int \frac{x^3 - x}{x^4 - 2x^2 + 1} dx$$

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4. Evaluate the integral.

$$\int \frac{6x - 15}{\sqrt[3]{x^2 - 5x + 4}} dx$$

5. Evaluate the integral.

$$\int e^{x^3+x}(6x^2 + 2) dx$$

6. Evaluate the integral.

$$\int (x^5 - 5x^2 + 3)^7(x^4 - 2x) dx$$

7. Evaluate the integral.

$$\int 2^{x^3-3x+1}(x^2-1) dx$$

8. Evaluate the integral.

$$\int \frac{7x+14}{(3x^2+12x-1)^4} dx$$

9. Evaluate the integral.

$$\int (4x+2)\sqrt{x^2+x-1} dx$$