

JANUARY 24

In a well written paragraph, explain how derivatives are different from integrals.

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Students will verbally explain how to find the integral by substitution
(using the words:
inside, outside, product, differential...)

$$\int (4x - 6)(2x^2 - 6x + 15)^6 dx$$

$$\int \sqrt[3]{x^2 - 6x + 8}(2x - 6) dx$$

$$\int \sqrt{\underset{f}{4x^3 - 7x}}(\underset{f'}{12x^2 - 7}) dx = \frac{2(4x^3 - 7x)^{3/2}}{3} + C$$

$$\int (9x^2 - 10x)(\underset{f}{3x^3 - 5x^2})^4 dx = \frac{(3x^3 - 5x^2)^5}{5} + C$$

$$\int (7x^6 - 5x^4)(x^7 - x^5 + 9)^6 dx$$

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