November 22, 2025

1 **Evaluate the definite integral. Use a graphing utility to verify your result.**

$$\int_0^4 |x^2 - 4x + 3|dx$$

2 **Find the indefinite integral and check the result by differentiation.**

$$\int \frac{6x^2}{(4x^3 - 9)^3}dx$$

3 **Find the indefinite integral by making a change of variables.**

$$\int sec^5(7x)tan(7x)dx$$