

For full credit you must show your work. Partial credit may be given for incorrect solutions if sufficient work is shown.

Use the method of substitution to evaluate the following integrals.

1. (5 pts)

$$\int (x^2 + 3x + 1)^9 (2x + 3) dx$$

2. (5 pts)

$$\int 6xe^{x^2+8} dx$$