

1. $\int (2x + 3)(x^2 + 3x + 5)^6 \, dx =$

2. $\int (3x^2 + 1)(x^3 + x + 1)^3 \, dx =$

3. $\int \frac{2x + 3}{\sqrt{x^2 + 3x + 5}} \, dx =$

4. $\int \frac{3x^2 + 1}{\sqrt[3]{x^3 + x + 1}} \, dx =$

5. $\int \frac{2x + 3}{\sqrt[3]{x^2 + 3x + 5}} \, dx =$

6. $\int \frac{3x^2 + 1}{\sqrt[5]{x^3 + x + 1}} \, dx =$