

Names: _____

Group #: _____

Evaluate the following indefinite integrals. ***If substitution is used, be sure to clearly indicate u and du .*** (Remember: You can check your answer by differentiating.)

$$1. \int (2x + 1) \sqrt[5]{x^2 + x} dx$$

$$2. \int \frac{x}{x^2 + 1} dx$$

$$3. \int x \sqrt{3 - x} dx$$

$$4. \int (3x^2 + 4x - 5) \cdot 8^{(x^3 + 2x^2 - 5x + 5)} dx$$

$$5. \int \frac{\sin(\sqrt{x})}{\sqrt{x}} dx$$

$$6. \int \frac{e^x}{(1 - e^x)^3} dx$$

$$7. \int \frac{x}{\sqrt{x+1}} dx$$

$$8. \int \frac{1}{(1+x)\sqrt{x}} dx$$