

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