

BASES OTHER THAN e II
AP CALCULUS

Answers
NAME _____

Find the indefinite integral.

1. $\int 3^x dx$

$$\frac{3^x}{\ln(3)} + C$$

2. $\int x(5^{-x^2}) dx$

$$-\frac{5^{-x^2}}{2(\ln 5)} + C$$

3. $\int \frac{3^{2x}}{1+3^{2x}} dx$

$$\frac{\ln(1+3^{2x})}{2(\ln 3)} + C$$

Evaluate the definite integral.

4. $\int_{-1}^2 2^x dx$

$$\frac{7}{2(\ln 2)}$$

5. $\int_0^3 3^x dx$

$$\frac{26}{(\ln 3)}$$

6. $\int_0^1 5^x - 3^x dx$

$$\frac{4}{(\ln 5)} - \frac{2}{(\ln 3)}$$