Candle Center - Infinite Calculus Name_____

Integration - Logarithmic Rule and Exponentials

Date_____ Period____

Evaluate each indefinite integral.

1) $\int x^{-1}\,dx$

2) $\int 3x^{-1}\,dx$

3) $\int -\frac{1}{x}\,dx$

4) $\int \frac{1}{x}\,dx$

5) $\int -e^{x}\,dx$

6) $\int e^{x}\,dx$

7) $\int 2 \cdot 3^{x}\,dx$

8) $\int 3 \cdot 5^{x}\,dx$

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Evaluate each indefinite integral.

1) $\int x^{-1}\,dx$

$\ln|x| + C$

2) $\int 3x^{-1}\,dx$

$3\ln|x| + C$

3) $\int -\frac{1}{x}\,dx$

$-\ln|x| + C$

4) $\int \frac{1}{x}\,dx$

$\ln|x| + C$

5) $\int -e^{x}\,dx$

$-e^{x} + C$

6) $\int e^{x}\,dx$

$e^{x} + C$

7) $\int 2 \cdot 3^{x}\,dx$

$\frac{2 \cdot 3^{x}}{\ln 3} + C$

8) $\int 3 \cdot 5^{x}\,dx$

$\frac{3 \cdot 5^{x}}{\ln 5} + C$