Name_____

Integration - Logarithmic Rule and Exponentials

Date_____ Period____

Evaluate each indefinite integral.

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

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

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

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

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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Integration - Logarithmic Rule and Exponentials

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

$-\ln|x| + C$

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

$\ln|x| + C$

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

$-e^x + C$

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

$e^x + C$

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

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

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

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