Name : _____ Score : _____

Teacher : _____ Date : _____

Logarithmic and Exponential Rules

Find each indefinite integral.

1) $\int (10x^{-1})dx$

2) $\int (\frac{9}{x})dx$

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

4) $\int (-6x^{-1})dx$

5) $\int (12e^{x})dx$

6) $\int (-2 \cdot 7^{x})dx$

7) $\int (6e^{x})dx$

8) $\int (-10 \cdot 4^{x})dx$

9) $\int (8 \cdot 16^{x})dx$

10) $\int (-3 \cdot 5^{x})dx$

11) $\int (-4e^{x})dx$

12) $\int (\frac{7}{x})dx$

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$10 \ln | x | + C$

2) $\int (\frac{9}{x})dx$

$9 \ln | x | + C$

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

$-5e^{x} + C$

4) $\int (-6x^{-1})dx$

$-6 \ln | x | + C$

5) $\int (12e^{x})dx$

$12e^{x} + C$

6) $\int (-2 \cdot 7^{x})dx$

$\frac{-2 \cdot 7^{x}}{\ln 7} + C$

7) $\int (6e^{x})dx$

$6e^{x} + C$

8) $\int (-10 \cdot 4^{x})dx$

$\frac{-10 \cdot 4^{x}}{\ln 4} + C$

9) $\int (8 \cdot 16^{x})dx$

$\frac{8 \cdot 16^{x}}{\ln 16} + C$

10) $\int (-3 \cdot 5^{x})dx$

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

11) $\int (-4e^{x})dx$

$-4e^{x} + C$

12) $\int (\frac{7}{x})dx$

$7 \ln | x | + C$