

Name : _____

Score : _____

Teacher : _____

Date : _____

Integration by Substitution

Find each indefinite integral.

1) $\int \left(\frac{8e^{6+\ln 3x}}{x} \right) dx$

2) $\int \left(\frac{-5e^{7+\ln 4x}}{x} \right) dx$

3) $\int \left(\frac{-2e^{10+\ln 6x}}{x} \right) dx$

4) $\int \left(\frac{6e^{2+\ln 1x}}{x} \right) dx$

5) $\int \left(\frac{-4e^{4+\ln 7x}}{x} \right) dx$

6) $\int \left(\frac{e^{10+\ln 5x}}{x} \right) dx$

7) $\int \left(\frac{e^{8+\ln 9x}}{x} \right) dx$

8) $\int \left(\frac{3e^{8+\ln 7x}}{x} \right) dx$



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Integration by Substitution

Find each indefinite integral.

$$9) \int \left(\frac{8e^{4+\ln 6x}}{x} \right) dx$$

$$10) \int \left(\frac{3e^{4+\ln 5x}}{x} \right) dx$$

$$11) \int \left(\frac{-2e^{9+\ln 6x}}{x} \right) dx$$

$$12) \int \left(\frac{-3e^{5+\ln 3x}}{x} \right) dx$$

$$13) \int \left(\frac{2e^{9+\ln 2x}}{x} \right) dx$$

$$14) \int \left(\frac{6e^{2+\ln 1x}}{x} \right) dx$$

$$15) \int \left(\frac{4e^{9+\ln 1x}}{x} \right) dx$$

$$16) \int \left(\frac{5e^{10+\ln 1x}}{x} \right) dx$$



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Integration by Substitution

Find each indefinite integral.

1) $\int \left(\frac{8e^{6+\ln 3x}}{x} \right) dx$

$$8e^{6+\ln 3x} + C$$

2) $\int \left(\frac{-5e^{7+\ln 4x}}{x} \right) dx$

$$-5e^{7+\ln 4x} + C$$

3) $\int \left(\frac{-2e^{10+\ln 6x}}{x} \right) dx$

$$-2e^{10+\ln 6x} + C$$

4) $\int \left(\frac{6e^{2+\ln 1x}}{x} \right) dx$

$$6e^{2+\ln 1x} + C$$

5) $\int \left(\frac{-4e^{4+\ln 7x}}{x} \right) dx$

$$-4e^{4+\ln 7x} + C$$

6) $\int \left(\frac{e^{10+\ln 5x}}{x} \right) dx$

$$e^{10+\ln 5x} + C$$

7) $\int \left(\frac{e^{8+\ln 9x}}{x} \right) dx$

$$e^{8+\ln 9x} + C$$

8) $\int \left(\frac{3e^{8+\ln 7x}}{x} \right) dx$

$$3e^{8+\ln 7x} + C$$



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Integration by Substitution

Find each indefinite integral.

9) $\int \left(\frac{8e^{4+\ln 6x}}{x} \right) dx$

$$8e^{4+\ln 6x} + C$$

10) $\int \left(\frac{3e^{4+\ln 5x}}{x} \right) dx$

$$3e^{4+\ln 5x} + C$$

11) $\int \left(\frac{-2e^{9+\ln 6x}}{x} \right) dx$

$$-2e^{9+\ln 6x} + C$$

12) $\int \left(\frac{-3e^{5+\ln 3x}}{x} \right) dx$

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

13) $\int \left(\frac{2e^{9+\ln 2x}}{x} \right) dx$

$$2e^{9+\ln 2x} + C$$

14) $\int \left(\frac{6e^{2+\ln 1x}}{x} \right) dx$

$$6e^{2+\ln 1x} + C$$

15) $\int \left(\frac{4e^{9+\ln 1x}}{x} \right) dx$

$$4e^{9+\ln 1x} + C$$

16) $\int \left(\frac{5e^{10+\ln 1x}}{x} \right) dx$

$$5e^{10+\ln 1x} + C$$

