

Name : _____

Score : _____

Teacher : _____

Date : _____

Substitution in Indefinite Integrals

Find each indefinite integral using the substitution provided.

1) $\int \frac{-5}{(-x+3)^2} ; u = -x + 3$

2) $\int \frac{4}{(-x-1)^3} ; u = -x - 1$

3) $\int \frac{-2}{(x-4)^2} ; u = x - 4$

4) $\int \frac{2}{(x-2)^3} ; u = x - 2$

5) $\int \frac{3}{(x-1)^2} ; u = x - 1$

6) $\int \frac{-4}{(-x+2)^4} ; u = -x + 2$

7) $\int \frac{-3}{(x+2)^4} ; u = x + 2$

8) $\int \frac{3}{(-x+4)^3} ; u = -x + 4$



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Substitution in Indefinite Integrals

Find each indefinite integral using the substitution provided.

9) $\int \frac{-2}{(x+5)^2} ; u = x + 5$

10) $\int \frac{-2}{(-x+5)^4} ; u = -x + 5$

11) $\int \frac{4}{(-x-2)^4} ; u = -x - 2$

12) $\int \frac{5}{(-x-3)^3} ; u = -x - 3$

13) $\int \frac{5}{(-x-5)^4} ; u = -x - 5$

14) $\int \frac{3}{(x-5)^2} ; u = x - 5$

15) $\int \frac{4}{(x+3)^3} ; u = x + 3$

16) $\int \frac{5}{(x+1)^3} ; u = x + 1$



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1) $\int \frac{-5}{(-x+3)^2} ; u = -x + 3$

$$\int \frac{5}{u^2} du$$

2) $\int \frac{4}{(-x-1)^3} ; u = -x - 1$

$$\int \frac{-4}{u^3} du$$

3) $\int \frac{-2}{(x-4)^2} ; u = x - 4$

$$\int \frac{-2}{u^2} du$$

4) $\int \frac{2}{(x-2)^3} ; u = x - 2$

$$\int \frac{2}{u^3} du$$

5) $\int \frac{3}{(x-1)^2} ; u = x - 1$

$$\int \frac{3}{u^2} du$$

6) $\int \frac{-4}{(-x+2)^4} ; u = -x + 2$

$$\int \frac{4}{u^4} du$$

7) $\int \frac{-3}{(x+2)^4} ; u = x + 2$

$$\int \frac{-3}{u^4} du$$

8) $\int \frac{3}{(-x+4)^3} ; u = -x + 4$

$$\int \frac{-3}{u^3} du$$



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$$\int \frac{5}{u^3} du$$

