

Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

1) $\int \left(\frac{11}{63x^{\frac{4}{3}}}\right)dx$

2) $\int \left(\frac{9}{91x^{\frac{10}{7}}}\right)dx$

3) $\int (2x)dx$

4) $\int (2x - 1)dx$

5) $\int \left(\frac{-8}{x^9}\right)dx$

6) $\int (3x^2 - 20x + 19)dx$

7) $\int \left(\frac{-3}{22x^{\frac{5}{6}}}\right)dx$

8) $\int \left(\frac{18}{x^2}\right)dx$

9) $\int \left(\frac{30}{x^6}\right)dx$

10) $\int (2x + 1)dx$



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Power Rule for Integration

Find the indefinite integral of each function.

11) $\int \left(\frac{51}{x^4}\right)dx$

12) $\int \left(\frac{-66}{x^7}\right)dx$

13) $\int \left(\frac{18}{143x^{\frac{14}{11}}}\right)dx$

14) $\int \left(\frac{11}{26x^{\frac{1}{2}}}\right)dx$

15) $\int \left(\frac{18}{55x^{\frac{2}{5}}}\right)dx$

16) $\int (4x^3 - 24x^2 + 30x)dx$

17) $\int \left(\frac{-2}{x^2}\right)dx$

18) $\int \left(\frac{-20}{x^2}\right)dx$

19) $\int (-5x^4 + 40x^3 - 93x^2 + 60x)dx$

20) $\int (2x - 7)dx$



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Power Rule for Integration

Find the indefinite integral of each function.

1) $\int \left(\frac{11}{63x^{\frac{4}{3}}}\right)dx$

$$\frac{-11}{21}x^{-\frac{1}{3}} + C$$

2) $\int \left(\frac{9}{91x^{\frac{10}{7}}}\right)dx$

$$\frac{-3}{13}x^{-\frac{3}{7}} + C$$

3) $\int (2x)dx$

$$x^2 + C$$

4) $\int (2x - 1)dx$

$$x^2 - x + C$$

5) $\int \left(\frac{-8}{x^9}\right)dx$

$$\frac{1}{x^8} + C$$

6) $\int (3x^2 - 20x + 19)dx$

$$x^3 - 10x^2 + 19x + C$$

7) $\int \left(\frac{-3}{22x^{\frac{5}{6}}}\right)dx$

$$\frac{-9}{11}x^{\frac{1}{6}} + C$$

8) $\int \left(\frac{18}{x^2}\right)dx$

$$\frac{-18}{x} + C$$

9) $\int \left(\frac{30}{x^6}\right)dx$

$$\frac{-6}{x^5} + C$$

10) $\int (2x + 1)dx$

$$x^2 + x + C$$



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Power Rule for Integration

Find the indefinite integral of each function.

11) $\int \left(\frac{51}{x^4}\right)dx$

$$\frac{-17}{x^3} + C$$

12) $\int \left(\frac{-66}{x^7}\right)dx$

$$\frac{11}{x^6} + C$$

13) $\int \left(\frac{18}{143x^{\frac{14}{11}}}\right)dx$

$$\frac{-6}{13}x^{\frac{-3}{11}} + C$$

14) $\int \left(\frac{11}{26x^{\frac{1}{2}}}\right)dx$

$$\frac{11}{13}x^{\frac{1}{2}} + C$$

15) $\int \left(\frac{18}{55x^{\frac{2}{5}}}\right)dx$

$$\frac{6}{11}x^{\frac{3}{5}} + C$$

16) $\int (4x^3 - 24x^2 + 30x)dx$

$$x^4 - 8x^3 + 15x^2 + C$$

17) $\int \left(\frac{-2}{x^2}\right)dx$

$$\frac{2}{x} + C$$

18) $\int \left(\frac{-20}{x^2}\right)dx$

$$\frac{20}{x} + C$$

19) $\int (-5x^4 + 40x^3 - 93x^2 + 60x)dx$

$$-x^5 + 10x^4 - 31x^3 + 30x^2 + C$$

20) $\int (2x - 7)dx$

$$x^2 - 7x + C$$

