

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Power Rule for Integration

Find the indefinite integral of each function.

1)  $\int \left(\frac{20}{99x^{\frac{5}{9}}}\right)dx$

2)  $\int \left(\frac{11}{81x^{\frac{7}{9}}}\right)dx$

3)  $\int \left(\frac{-11}{162x^{\frac{8}{9}}}\right)dx$

4)  $\int \left(\frac{6}{65x^{\frac{7}{10}}}\right)dx$

5)  $\int \left(\frac{36}{169x^{\frac{9}{13}}}\right)dx$

6)  $\int \left(\frac{6}{91x^{\frac{5}{7}}}\right)dx$

7)  $\int \left(\frac{6}{77x^{\frac{8}{11}}}\right)dx$

8)  $\int \left(\frac{-7}{100x^{\frac{9}{10}}}\right)dx$

9)  $\int \left(\frac{9}{110x^{\frac{11}{10}}}\right)dx$

10)  $\int \left(\frac{10}{91x^{\frac{17}{13}}}\right)dx$



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## Power Rule for Integration

Find the indefinite integral of each function.

$$11) \int \left( \frac{32}{65x^{\frac{9}{5}}} \right) dx$$

$$12) \int \left( \frac{-24}{49x^{\frac{11}{7}}} \right) dx$$

$$13) \int \left( \frac{-7}{50x^{\frac{6}{5}}} \right) dx$$

$$14) \int \left( \frac{-6}{35x^{\frac{4}{7}}} \right) dx$$

$$15) \int \left( \frac{-16}{63x^{\frac{5}{9}}} \right) dx$$

$$16) \int \left( \frac{16}{45x^{\frac{1}{3}}} \right) dx$$

$$17) \int \left( \frac{30}{77x^{\frac{10}{7}}} \right) dx$$

$$18) \int \left( \frac{6}{55x^{\frac{13}{11}}} \right) dx$$

$$19) \int \left( \frac{12}{91x^{\frac{9}{7}}} \right) dx$$

$$20) \int \left( \frac{10}{171x^{\frac{8}{9}}} \right) dx$$



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## Power Rule for Integration

Find the indefinite integral of each function.

1)  $\int \left(\frac{20}{99x^{\frac{5}{9}}}\right)dx$

$$\frac{5}{11}x^{\frac{4}{9}} + C$$

2)  $\int \left(\frac{11}{81x^{\frac{7}{9}}}\right)dx$

$$\frac{11}{18}x^{\frac{2}{9}} + C$$

3)  $\int \left(\frac{-11}{162x^{\frac{8}{9}}}\right)dx$

$$\frac{-11}{18}x^{\frac{1}{9}} + C$$

4)  $\int \left(\frac{6}{65x^{\frac{7}{10}}}\right)dx$

$$\frac{4}{13}x^{\frac{3}{10}} + C$$

5)  $\int \left(\frac{36}{169x^{\frac{9}{13}}}\right)dx$

$$\frac{9}{13}x^{\frac{4}{13}} + C$$

6)  $\int \left(\frac{6}{91x^{\frac{5}{7}}}\right)dx$

$$\frac{3}{13}x^{\frac{2}{7}} + C$$

7)  $\int \left(\frac{6}{77x^{\frac{8}{11}}}\right)dx$

$$\frac{2}{7}x^{\frac{3}{11}} + C$$

8)  $\int \left(\frac{-7}{100x^{\frac{9}{10}}}\right)dx$

$$\frac{-7}{10}x^{\frac{1}{10}} + C$$

9)  $\int \left(\frac{9}{110x^{\frac{11}{10}}}\right)dx$

$$\frac{-9}{11}x^{\frac{-1}{10}} + C$$

10)  $\int \left(\frac{10}{91x^{\frac{17}{13}}}\right)dx$

$$\frac{-5}{14}x^{\frac{-4}{13}} + C$$



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## Power Rule for Integration

Find the indefinite integral of each function.

11)  $\int \left(\frac{32}{65x^{\frac{9}{5}}}\right)dx$

$$\frac{-8}{13}x^{-\frac{4}{5}} + C$$

12)  $\int \left(\frac{-24}{49x^{\frac{11}{7}}}\right)dx$

$$\frac{6}{7}x^{-\frac{4}{7}} + C$$

13)  $\int \left(\frac{-7}{50x^{\frac{6}{5}}}\right)dx$

$$\frac{7}{10}x^{-\frac{1}{5}} + C$$

14)  $\int \left(\frac{-6}{35x^{\frac{4}{7}}}\right)dx$

$$\frac{-2}{5}x^{\frac{3}{7}} + C$$

15)  $\int \left(\frac{-16}{63x^{\frac{5}{9}}}\right)dx$

$$\frac{-4}{7}x^{\frac{4}{9}} + C$$

16)  $\int \left(\frac{16}{45x^{\frac{1}{3}}}\right)dx$

$$\frac{8}{15}x^{\frac{2}{3}} + C$$

17)  $\int \left(\frac{30}{77x^{\frac{10}{7}}}\right)dx$

$$\frac{-10}{11}x^{-\frac{3}{7}} + C$$

18)  $\int \left(\frac{6}{55x^{\frac{13}{11}}}\right)dx$

$$\frac{-3}{5}x^{-\frac{2}{11}} + C$$

19)  $\int \left(\frac{12}{91x^{\frac{9}{7}}}\right)dx$

$$\frac{-6}{13}x^{-\frac{2}{7}} + C$$

20)  $\int \left(\frac{10}{171x^{\frac{8}{9}}}\right)dx$

$$\frac{10}{19}x^{\frac{1}{9}} + C$$

