

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

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

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

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

## Power Rule for Integration

Find the indefinite integral of each function.

$$1) \int \left( \frac{6}{35r^{\frac{2}{5}}} \right) dr$$

$$2) \int \left( \frac{3}{8w^{\frac{1}{3}}} \right) dw$$

$$3) \int \left( \frac{24}{143t^{\frac{16}{13}}} \right) dt$$

$$4) \int \left( \frac{1}{13t^{\frac{7}{8}}} \right) dt$$

$$5) \int \left( \frac{-8}{39x^{\frac{5}{9}}} \right) dx$$

$$6) \int \left( \frac{-40}{247a^{\frac{17}{13}}} \right) da$$

$$7) \int \left( \frac{2}{33r^{\frac{8}{9}}} \right) dr$$

$$8) \int \left( \frac{3}{88m^{\frac{7}{8}}} \right) dm$$

$$9) \int \left( \frac{-10}{21m^{\frac{3}{7}}} \right) dm$$

$$10) \int \left( \frac{-44}{119c^{\frac{11}{7}}} \right) dc$$



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

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

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

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

## Power Rule for Integration

Find the indefinite integral of each function.

11)  $\int \left(\frac{12}{35f^{\frac{10}{7}}}\right)df$

12)  $\int \left(\frac{2}{15f^{\frac{9}{7}}}\right)df$

13)  $\int \left(\frac{7}{26d^{\frac{9}{13}}}\right)dd$

14)  $\int \left(\frac{-16}{91x^{\frac{17}{13}}}\right)dx$

15)  $\int \left(\frac{-1}{8u^5}\right)du$

16)  $\int \left(\frac{11}{84v^6}\right)dv$

17)  $\int \left(\frac{20}{143n^{\frac{13}{11}}}\right)dn$

18)  $\int \left(\frac{-3}{55h^{\frac{9}{11}}}\right)dh$

19)  $\int \left(\frac{1}{7k^{\frac{11}{9}}}\right)dk$

20)  $\int \left(\frac{-6}{121b^{\frac{8}{11}}}\right)db$



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

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

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

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

## Power Rule for Integration

Find the indefinite integral of each function.

1)  $\int \left(\frac{6}{35r^{\frac{2}{5}}}\right)dr$

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

2)  $\int \left(\frac{3}{8w^{\frac{1}{3}}}\right)dw$

$$\frac{9}{16}w^{\frac{2}{3}} + C$$

3)  $\int \left(\frac{24}{143t^{\frac{16}{13}}}\right)dt$

$$\frac{-8}{11}t^{-\frac{3}{13}} + C$$

4)  $\int \left(\frac{1}{13t^8}\right)dt$

$$\frac{8}{13}t^{\frac{1}{8}} + C$$

5)  $\int \left(\frac{-8}{39x^{\frac{5}{9}}}\right)dx$

$$\frac{-6}{13}x^{\frac{4}{9}} + C$$

6)  $\int \left(\frac{-40}{247a^{\frac{17}{13}}}\right)da$

$$\frac{10}{19}a^{-\frac{4}{13}} + C$$

7)  $\int \left(\frac{2}{33r^{\frac{8}{9}}}\right)dr$

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

8)  $\int \left(\frac{3}{88m^{\frac{7}{8}}}\right)dm$

$$\frac{3}{11}m^{\frac{1}{8}} + C$$

9)  $\int \left(\frac{-10}{21m^{\frac{3}{7}}}\right)dm$

$$\frac{-5}{6}m^{\frac{4}{7}} + C$$

10)  $\int \left(\frac{-44}{119c^{\frac{11}{7}}}\right)dc$

$$\frac{11}{17}c^{-\frac{4}{7}} + C$$



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

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

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

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

## Power Rule for Integration

Find the indefinite integral of each function.

11)  $\int \left(\frac{12}{35f^{\frac{10}{7}}}\right)df$

$$\frac{-4}{5} f^{\frac{-3}{7}} + C$$

12)  $\int \left(\frac{2}{15f^{\frac{9}{7}}}\right)df$

$$\frac{-7}{15} f^{\frac{-2}{7}} + C$$

13)  $\int \left(\frac{7}{26d^{\frac{9}{13}}}\right)dd$

$$\frac{7}{8} d^{\frac{4}{13}} + C$$

14)  $\int \left(\frac{-16}{91x^{\frac{17}{13}}}\right)dx$

$$\frac{4}{7} x^{\frac{-4}{13}} + C$$

15)  $\int \left(\frac{-1}{8u^{\frac{6}{5}}}\right)du$

$$\frac{5}{8} u^{\frac{-1}{5}} + C$$

16)  $\int \left(\frac{11}{84v^{\frac{7}{6}}}\right)dv$

$$\frac{-11}{14} v^{\frac{-1}{6}} + C$$

17)  $\int \left(\frac{20}{143n^{\frac{13}{11}}}\right)dn$

$$\frac{-10}{13} n^{\frac{-2}{11}} + C$$

18)  $\int \left(\frac{-3}{55h^{\frac{9}{11}}}\right)dh$

$$\frac{-3}{10} h^{\frac{2}{11}} + C$$

19)  $\int \left(\frac{1}{7k^{\frac{11}{9}}}\right)dk$

$$\frac{-9}{14} k^{\frac{-2}{9}} + C$$

20)  $\int \left(\frac{-6}{121b^{\frac{8}{11}}}\right)db$

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

