

Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

1) $\int \left(\frac{120}{r^9}\right)dr$

2) $\int (2a - 4)da$

3) $\int \left(\frac{26}{c^3}\right)dc$

4) $\int \left(\frac{4}{35n^{\frac{9}{7}}}\right)dn$

5) $\int \left(\frac{56}{u^8}\right)du$

6) $\int \left(\frac{8}{s^3}\right)ds$

7) $\int \left(\frac{54}{u^7}\right)du$

8) $\int (-5v^4 + 40v^3 - 99v^2 + 72v)dv$

9) $\int \left(\frac{160}{h^9}\right)dh$

10) $\int \left(\frac{1}{36b^{\frac{7}{8}}}\right)db$



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Power Rule for Integration

Find the indefinite integral of each function.

11) $\int \left(\frac{-12}{49f^{\frac{5}{7}}}\right)df$

12) $\int (2c + 1)dc$

13) $\int \left(\frac{1}{18a^{\frac{12}{11}}}\right)da$

14) $\int (2f + 2)df$

15) $\int \left(\frac{5}{68b^{\frac{9}{8}}}\right)db$

16) $\int \left(\frac{1}{v^2}\right)dv$

17) $\int (-5d^4)dd$

18) $\int (5x^4 - 28x^3 + 48x^2 - 24x)dx$

19) $\int \left(\frac{12}{35h^{\frac{3}{5}}}\right)dh$

20) $\int (-3d^2 + 12d)dd$



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Power Rule for Integration

Find the indefinite integral of each function.

1) $\int \left(\frac{120}{r^9}\right)dr$

$$\frac{-15}{r^8} + C$$

2) $\int (2a - 4)da$

$$a^2 - 4a + C$$

3) $\int \left(\frac{26}{c^3}\right)dc$

$$\frac{-13}{c^2} + C$$

4) $\int \left(\frac{4}{35n^7}\right)dn$

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

5) $\int \left(\frac{56}{u^8}\right)du$

$$\frac{-8}{u^7} + C$$

6) $\int \left(\frac{8}{s^3}\right)ds$

$$\frac{-4}{s^2} + C$$

7) $\int \left(\frac{54}{u^7}\right)du$

$$\frac{-9}{u^6} + C$$

8) $\int (-5v^4 + 40v^3 - 99v^2 + 72v)dv$

$$-v^5 + 10v^4 - 33v^3 + 36v^2 + C$$

9) $\int \left(\frac{160}{h^9}\right)dh$

$$\frac{-20}{h^8} + C$$

10) $\int \left(\frac{1}{36b^{\frac{7}{8}}}\right)db$

$$\frac{2}{9}b^{\frac{1}{8}} + C$$



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Power Rule for Integration

Find the indefinite integral of each function.

11) $\int \left(\frac{-12}{49f^{\frac{5}{7}}}\right)df$

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

12) $\int (2c + 1)dc$

$$c^2 + c + C$$

13) $\int \left(\frac{1}{18a^{\frac{12}{11}}}\right)da$

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

14) $\int (2f + 2)df$

$$f^2 + 2f + C$$

15) $\int \left(\frac{5}{68b^{\frac{9}{8}}}\right)db$

$$\frac{-10}{17} b^{-\frac{1}{8}} + C$$

16) $\int \left(\frac{1}{v^2}\right)dv$

$$\frac{-1}{v} + C$$

17) $\int (-5d^4)dd$

$$-d^5 + C$$

18) $\int (5x^4 - 28x^3 + 48x^2 - 24x)dx$

$$x^5 - 7x^4 + 16x^3 - 12x^2 + C$$

19) $\int \left(\frac{12}{35h^{\frac{3}{5}}}\right)dh$

$$\frac{6}{7} h^{\frac{2}{5}} + C$$

20) $\int (-3d^2 + 12d)dd$

$$-d^3 + 6d^2 + C$$

