

Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

1) $\int (3m^2 - 18m + 14)dm$

2) $\int (2u - 1)du$

3) $\int (5b^4 - 24b^3 + 33b^2 - 12b)db$

4) $\int (2b - 13)db$

5) $\int (2a + 3)da$

6) $\int (4s^3 - 24s^2 + 32s)ds$

7) $\int (-5c^4 + 32c^3 - 51c^2 + 20c)dc$

8) $\int (4h^3 - 21h^2 + 20h)dh$

9) $\int (5v^4 - 20v^3 + 18v^2)dv$

10) $\int (4k^3 - 12k^2 + 8k)dk$



Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

11) $\int (-5a^4 + 32a^3 - 57a^2 + 24a)da$

12) $\int (-5r^4 + 12r^3)dr$

13) $\int (4v^3 - 36v^2 + 72v)dv$

14) $\int (5x^4 - 36x^3 + 78x^2 - 48x)dx$

15) $\int (4s^3 - 18s^2 + 18s)ds$

16) $\int (5n^4 - 52n^3 + 165n^2 - 150n)dn$

17) $\int (2m - 7)dm$

18) $\int (2h + 1)dh$

19) $\int (2n - 2)dn$

20) $\int (-5d^4 + 40d^3 - 99d^2 + 72d)dd$



Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

1) $\int (3m^2 - 18m + 14)dm$

$$m^3 - 9m^2 + 14m + C$$

2) $\int (2u - 1)du$

$$u^2 - u + C$$

3) $\int (5b^4 - 24b^3 + 33b^2 - 12b)db$

$$b^5 - 6b^4 + 11b^3 - 6b^2 + C$$

4) $\int (2b - 13)db$

$$b^2 - 13b + C$$

5) $\int (2a + 3)da$

$$a^2 + 3a + C$$

6) $\int (4s^3 - 24s^2 + 32s)ds$

$$s^4 - 8s^3 + 16s^2 + C$$

7) $\int (-5c^4 + 32c^3 - 51c^2 + 20c)dc$

$$-c^5 + 8c^4 - 17c^3 + 10c^2 + C$$

8) $\int (4h^3 - 21h^2 + 20h)dh$

$$h^4 - 7h^3 + 10h^2 + C$$

9) $\int (5v^4 - 20v^3 + 18v^2)dv$

$$v^5 - 5v^4 + 6v^3 + C$$

10) $\int (4k^3 - 12k^2 + 8k)dk$

$$k^4 - 4k^3 + 4k^2 + C$$



Name : _____

Score : _____

Teacher : _____

Date : _____

Power Rule for Integration

Find the indefinite integral of each function.

11) $\int (-5a^4 + 32a^3 - 57a^2 + 24a)da$

$$-a^5 + 8a^4 - 19a^3 + 12a^2 + C$$

12) $\int (-5r^4 + 12r^3)dr$

$$-r^5 + 3r^4 + C$$

13) $\int (4v^3 - 36v^2 + 72v)dv$

$$v^4 - 12v^3 + 36v^2 + C$$

14) $\int (5x^4 - 36x^3 + 78x^2 - 48x)dx$

$$x^5 - 9x^4 + 26x^3 - 24x^2 + C$$

15) $\int (4s^3 - 18s^2 + 18s)ds$

$$s^4 - 6s^3 + 9s^2 + C$$

16) $\int (5n^4 - 52n^3 + 165n^2 - 150n)dn$

$$n^5 - 13n^4 + 55n^3 - 75n^2 + C$$

17) $\int (2m - 7)dm$

$$m^2 - 7m + C$$

18) $\int (2h + 1)dh$

$$h^2 + h + C$$

19) $\int (2n - 2)dn$

$$n^2 - 2n + C$$

20) $\int (-5d^4 + 40d^3 - 99d^2 + 72d)dd$

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

