

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

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

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

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

## Power Rule for Integration

Find the indefinite integral of each function.

1)  $\int (5x^4 - 32x^3 + 63x^2 - 36x)dx$

2)  $\int (4x^3 - 15x^2)dx$

3)  $\int (5x^4 - 24x^3 + 15x^2)dx$

4)  $\int (2x - 3)dx$

5)  $\int (3x^2 - 16x + 12)dx$

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

7)  $\int (-5x^4 + 32x^3 - 48x^2)dx$

8)  $\int (-3x^2 + 27)dx$

9)  $\int (5x^4 - 72x^3 + 324x^2 - 432x)dx$

10)  $\int (4x^3 - 18x^2)dx$



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## Power Rule for Integration

Find the indefinite integral of each function.

11)  $\int (5x^4 - 48x^3 + 108x^2)dx$

12)  $\int (-3x^2 + 10x + 25)dx$

13)  $\int (2x + 2)dx$

14)  $\int (-3x^2 + 14x - 4)dx$

15)  $\int (2x - 12)dx$

16)  $\int (3x^2 - 18x + 24)dx$

17)  $\int (5x^4 - 24x^3 + 33x^2 - 12x)dx$

18)  $\int (4x^3 - 30x^2 + 48x)dx$

19)  $\int (2x + 3)dx$

20)  $\int (-4x^3 + 15x^2 - 8x)dx$



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## Power Rule for Integration

Find the indefinite integral of each function.

1)  $\int (5x^4 - 32x^3 + 63x^2 - 36x)dx$

$$x^5 - 8x^4 + 21x^3 - 18x^2 + C$$

2)  $\int (4x^3 - 15x^2)dx$

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

3)  $\int (5x^4 - 24x^3 + 15x^2)dx$

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

4)  $\int (2x - 3)dx$

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

5)  $\int (3x^2 - 16x + 12)dx$

$$x^3 - 8x^2 + 12x + C$$

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

$$x^2 + x + C$$

7)  $\int (-5x^4 + 32x^3 - 48x^2)dx$

$$-x^5 + 8x^4 - 16x^3 + C$$

8)  $\int (-3x^2 + 27)dx$

$$-x^3 + 27x + C$$

9)  $\int (5x^4 - 72x^3 + 324x^2 - 432x)dx$

$$x^5 - 18x^4 + 108x^3 - 216x^2 + C$$

10)  $\int (4x^3 - 18x^2)dx$

$$x^4 - 6x^3 + C$$



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## Power Rule for Integration

Find the indefinite integral of each function.

11)  $\int (5x^4 - 48x^3 + 108x^2)dx$

$$x^5 - 12x^4 + 36x^3 + C$$

12)  $\int (-3x^2 + 10x + 25)dx$

$$-x^3 + 5x^2 + 25x + C$$

13)  $\int (2x + 2)dx$

$$x^2 + 2x + C$$

14)  $\int (-3x^2 + 14x - 4)dx$

$$-x^3 + 7x^2 - 4x + C$$

15)  $\int (2x - 12)dx$

$$x^2 - 12x + C$$

16)  $\int (3x^2 - 18x + 24)dx$

$$x^3 - 9x^2 + 24x + C$$

17)  $\int (5x^4 - 24x^3 + 33x^2 - 12x)dx$

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

18)  $\int (4x^3 - 30x^2 + 48x)dx$

$$x^4 - 10x^3 + 24x^2 + C$$

19)  $\int (2x + 3)dx$

$$x^2 + 3x + C$$

20)  $\int (-4x^3 + 15x^2 - 8x)dx$

$$-x^4 + 5x^3 - 4x^2 + C$$

