

Integration Power Rule**Evaluate each indefinite integral.**

1) $\int -24x^5 \, dx$

2) $\int -3 \, dx$

3) $\int -6x \, dx$

4) $\int 12x^2 \, dx$

5) $\int (-24x^5 - 10x) \, dx$

6) $\int (-9x^2 + 10x) \, dx$

7) $\int 4x^{-5} \, dx$

8) $\int -2x^{-3} \, dx$

$$9) \int (-2x^{-3} + 20x^{-5}) dx$$

$$10) \int (-4x^{-3} - 20x^{-5}) dx$$

$$11) \int \left(-\frac{4}{x^3} - \frac{8}{x^5} \right) dx$$

$$12) \int \left(\frac{15}{x^4} + \frac{8}{x^5} \right) dx$$

$$13) \int -\frac{14x^{\frac{5}{2}}}{2} dx$$

$$14) \int -\frac{35x^{\frac{2}{5}}}{5} dx$$

$$15) \int -\frac{5\sqrt[3]{x^2}}{3} dx$$

$$16) \int -\frac{5\sqrt[4]{x}}{2} dx$$

Integration Power Rule**Evaluate each indefinite integral.**

1)
$$\int -24x^5 \, dx$$

$$-4x^6 + C$$

2)
$$\int -3 \, dx$$

$$-3x + C$$

3)
$$\int -6x \, dx$$

$$-3x^2 + C$$

4)
$$\int 12x^2 \, dx$$

$$4x^3 + C$$

5)
$$\int (-24x^5 - 10x) \, dx$$

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

6)
$$\int (-9x^2 + 10x) \, dx$$

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

7)
$$\int 4x^{-5} \, dx$$

$$-\frac{1}{x^4} + C$$

8)
$$\int -2x^{-3} \, dx$$

$$\frac{1}{x^2} + C$$

$$9) \int (-2x^{-3} + 20x^{-5}) dx$$

$$\frac{1}{x^2} - \frac{5}{x^4} + C$$

$$10) \int (-4x^{-3} - 20x^{-5}) dx$$

$$\frac{2}{x^2} + \frac{5}{x^4} + C$$

$$11) \int \left(-\frac{4}{x^3} - \frac{8}{x^5} \right) dx$$

$$\frac{2}{x^2} + \frac{2}{x^4} + C$$

$$12) \int \left(\frac{15}{x^4} + \frac{8}{x^5} \right) dx$$

$$-\frac{5}{x^3} - \frac{2}{x^4} + C$$

$$13) \int -\frac{14x^{\frac{5}{2}}}{2} dx$$

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

$$14) \int -\frac{35x^{\frac{7}{5}}}{5} dx$$

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

$$15) \int -\frac{5\sqrt[3]{x^2}}{3} dx$$

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

$$16) \int -\frac{5\sqrt[4]{x}}{2} dx$$

$$-2x^{\frac{5}{4}} + C$$

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