Student Name: _____

Score:

Integration using Power Rule

Integrate the following w.r.t. x

$$\int 4x^3 dx$$

$$\int (7x^3 - \frac{4}{5}x^{\frac{-9}{2}} + x^{\frac{4}{3}})dx$$

$$\int (x^{\frac{1}{2}} + 3x^2) dx$$

$$\int \left(\frac{2x^2}{x} + \frac{3\sqrt{x}}{3}\right) dx$$

$\int \left(\frac{8}{\sqrt{x}} + 7\sqrt{x}\right) dx$

PREVIEW

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$$\int (8x^5 + 7)dx$$

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 $\int \left(5x^9 + 4x^{-9}\right)$

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$$\int \left(\frac{4x^7}{5} - 3\sqrt[5]{x}\right) dx$$

$$\int \left(\frac{x^{\frac{1}{3}} - x^{\frac{1}{2}}}{\sqrt[3]{x}}\right) dx$$

Student Name: _____

Score:

Answer key

Integration using Power Rule

$$x^4 + C$$

$$\frac{7x^4}{4} + \frac{8x^{\frac{-7}{2}}}{35} + \frac{3x^{\frac{7}{3}}}{7} + C$$

$$\frac{2x^{\frac{3}{2}}}{3} + x^3 + C$$

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

PREVIEW

$$16\sqrt{x} + \left(\frac{14}{3}\right)x$$

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$$\frac{4x^6}{3} + 7x + C$$

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 $\frac{x^{10}}{2} - \frac{x^{-8}}{2} + C$

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$$\frac{x^8}{10} - \frac{5x^{\frac{6}{5}}}{2} + C$$

$$x - \frac{6x^{\frac{7}{6}}}{7} + C$$