

Student Name: _____

Score: _____

Definite Integrals

Sheet 1

Integrate the following w.r.t. x

$$\int_0^2 x^3 dx$$

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{2}} \sqrt{3} \sin(x) dx$$

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$$\int_0^{\frac{\pi}{2}} \sin(x) dx$$

$$\int_3^4 \frac{2}{x} dx$$

$$\int_{\frac{\pi}{4}}^{\frac{\pi}{2}} \cos(2x) dx$$

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Answer key

Definite Integrals

Sheet 1

4

$\frac{3}{2}$

4

$\frac{e^6 - 1}{2}$

1

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$2 \ln 4 - 2 \ln 3$

$-\frac{1}{2}$