Student Name: _____

Score:

Integration using Substitution

Sheet 3

Integrate the following w.r.t.x

$$\int \frac{12x^3}{\sqrt{3x^4 + 5}} dx$$

$$\int \tan x \sec^2 x \, dx$$

 $\int \cos x \sin^7 x \, dx$

PREVIEW

 $\int \sin^3 x \cot x \, dx$

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 $\int (5x^4-3)(1-x^5)$

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$$\int 9x^8 e^{x^9} dx$$

$$\int \frac{\sin x}{\sqrt{1 - \cos x}} dx$$

Student Name: _

Score:

Answer key

Integration using Substitution

Sheet 3

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

$$\frac{\tan^2 x}{2} + c$$

$$\frac{\sin^8 x}{8} + C$$

PREVIEW

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

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$$-\frac{(1-x^5+3x)^2}{2}$$

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$$e^{x^9} + C$$

$$2\sqrt{1-\cos x} + C$$