

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

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

**Basic Integration**

Sheet 2

Integrate the following w.r.t. x

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

$$\int (4x^3 + \csc^2 x + \frac{2}{x^2})dx$$

$$\int (\cos x + \sin x)dx$$

**PREVIEW**

$$\int (\frac{e^{7x}}{2} + \sin x)dx$$

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$$\int (\frac{7}{5}x^4 + \sin x)dx$$

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$$\int (\sin x + \cos x)dx$$

$$\int (x^5 + \frac{x}{3})dx$$

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$$\int (\cos 7x - \sin^2 x)dx$$

$$\int (\sin 4x + e^{3x} + 5x^4)dx$$

$$\int (2x^7 + \frac{e^{3x}}{4} + \csc^2 x)dx$$

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Answer key

Basic Integration

Sheet 2

$$x^3 - \frac{\cos 3x}{3} + \ln(|x|) + C$$

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

$$\sin(x) + \tan(x)$$

$$e^x + \frac{e^{7x}}{7} - \cos x + C$$

# PREVIEW

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$$\frac{7x^5}{25} - \frac{\cos 3x}{3} + C$$

$$\cos x + \sin x + C$$

$$\frac{x^6}{6} + \frac{x^8}{24} + C$$

$$\frac{n7x}{7} + \frac{\sin 2x}{4} - \frac{x}{2} + C$$

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

$$\frac{x^8}{4} + \frac{e^{3x}}{12} - \cot x + C$$