

$$4 \ln(2\sqrt{x}) + 2$$

Differentiate

$$x^2 e^x$$

Differentiating using the product rule

$$2e^x(x + 1)$$

Differentiate

$$x^2 \ln(2x)$$

Differentiating using the product rule

$$\frac{1}{2}x(4 \ln(2\sqrt{x}) + 1)$$

Differentiate

$$\frac{\ln(2x)}{x}$$

Differentiating using the product rule

$$2(\ln(x^2) + 2)$$

Differentiate

$$x^{1/2} \ln(x^2)$$

Differentiating using the product rule

$$e^x x(x + 2)$$

Differentiate

$$x^2 \ln(x^2)$$

Differentiating using the product rule

$$2x(\ln(x^2) + 1)$$

Differentiate

$$2x \ln(x^2)$$

Differentiating using the product rule

$$2(\ln(2x) + 1)$$

Differentiate

$$2e^x x^2$$

Differentiating using the product rule

$$\frac{e^x(2x + 1)}{2\sqrt{x}}$$

Differentiate

$$2xe^x$$

Differentiating using the product rule

$$\frac{1 - \ln(2x)}{x^2}$$

Differentiate

$$4e^x \sqrt{x}$$

Differentiating using the product rule

$$2xe^x(x+2)$$

Differentiate

$$\sqrt{x}e^x$$

Differentiating using the product rule

$$\frac{2e^x(2x+1)}{\sqrt{x}}$$

Differentiate

$$2x^2 \ln(\sqrt{x})$$

Differentiating using the product rule

$$x + 2x \ln x$$

Differentiate

$$4x \ln(2\sqrt{x})$$

Differentiating using the product rule

$$\frac{1}{2}(x + 2x \ln(2x))$$

Differentiate

$$4x \ln(\sqrt{2x})$$

Differentiating using the product rule

$$\frac{\ln(x^2) + 4}{2\sqrt{x}}$$

Differentiate

$$x^2 \ln(\sqrt{2x})$$

Differentiating using the product rule

$$x + 2x \ln(2x)$$

Differentiate

$$x^2 \ln(\sqrt{4x})$$

Differentiating using the product rule

Answer Sheet

Differentiating using
the product rule

