Student Name: \_

Score:

## **Derivatives using Product Rule**

Sheet 2

Find the derivatives using product rule:

$$y = \sqrt[5]{x} \cot 2x$$

$$y = \sin x \cos x$$

 $y = x^2 \sin x$ 

## **PREVIEW**

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$$y = (x+5)$$

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$$y = \frac{1}{2}\log(1+5x)\cos 6x$$

$$y = x e^{x^3 + 5x^2}$$

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**Answer key** 

**Derivatives using Product Rule** 

Sheet 2

$$\frac{dy}{dx} = \frac{1}{5}x^{\frac{-4}{5}} \cot 2x - 2x^{\frac{1}{5}} \csc^2 2x$$

$$\frac{dy}{dx} = \cos^2 x - \sin^2 x$$

 $\frac{dy}{dx} = 2x \sin x + x$ 

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 $\sqrt{x}$  sec 6x tan 6x

 $\frac{dy}{dx} = e^{5x} (5 \tan 4)$ 

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 $\frac{dy}{dx} = 2(x+5)^2 \text{ si}$ 

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 $3x^2\log(1+x)$ 

 $+7x^6+9$ )

$$\frac{dy}{dx} = \frac{5}{2} \frac{\cos 6x}{(1+5x)} - 3\log(1+5x)\sin 6x$$

$$\frac{dy}{dx} = e^{x^3 + 5x^2} (3x^3 + 10x^2 + 1)$$