Student Name: _____

Score:

Derivatives using Quotient Rule

Sheet 2

Find the derivatives using quotient rule:

$$y = \frac{2x^3}{4 - x}$$

$$y = \frac{x}{x^2 + 1}$$

$$y = \frac{4\sin x}{2x + \cos}$$

PREVIEW

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$$y = \frac{1 + \ln x}{x^2 - \ln x}$$

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$$y = \frac{x^{\frac{7}{5}} - x^{\frac{8}{5}}}{\sqrt[5]{x}}$$

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$$y = \frac{\sin x}{\tan x}$$

$$y = \frac{\sin 18x}{6x}$$

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Answer key

Derivatives using Quotient Rule

Sheet 2

$$\frac{dy}{dx} = \frac{4x^2(6-x)}{(4-x)^2}$$

$$\frac{dy}{dx} = \frac{1 - x^2}{(x^2 + 1)^2}$$

 $\frac{dy}{dx} = \frac{8x\cos x}{(2x)}$

PREVIEW

 $\frac{2e^x - 7x^2}{x)^2}$

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$$\frac{dy}{dx} = \frac{\left(\frac{1}{x}\right)(x^2 - \frac{1}{x})}{x^2 - \frac{1}{x}}$$

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 $\frac{dy}{dx} = \frac{6x^{\frac{3}{5}} - 7}{\frac{2}{3}}$

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$$\frac{dy}{dx} = -\sin x$$

$$\frac{dy}{dx} = \frac{18x\cos 18x - \sin 18x}{6x^2}$$