

81. $y = (\sin(\frac{3x}{2} + 3))^{1/2}$ is a constant, which means $\frac{dy}{dx} = 0$.

82. The derivative of a constant is 0

83.

$$\begin{aligned} \sin(a+x) &= \sin a \cos x + \cos a \sin x \\ \frac{d}{dx}(\sin(a+x)) &= \frac{d}{dx}(\sin a \cos x + \cos a \sin x) \\ &= -\sin a \sin x + \cos a \cos x \\ &= \cos a \cos x - \sin a \sin x \\ &= \cos(a+x) \end{aligned}$$

84.

$$\begin{aligned} \cos(a+x) &= \cos a \cos x - \sin a \sin x \\ \frac{d}{dx}(\cos(a+x)) &= \frac{d}{dx}(\cos a \cos x - \sin a \sin x) \\ &= -\cos a \sin x + \sin a \cos x \\ &= \sin a \cos x - \cos a \sin x \\ &= \sin(a+x) \end{aligned}$$

85. Let $Q(x) = \frac{N(x)}{D(x)}$. Then we can write

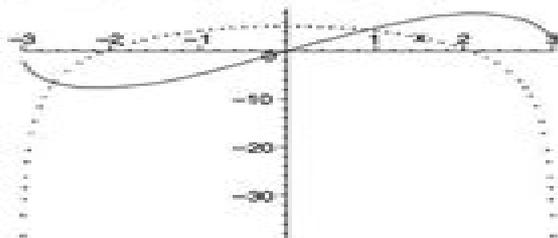
$$Q(x) = N(x) \cdot [D(x)]^{-1}$$

using the property of negative exponents. Now we use the product differentiation rule

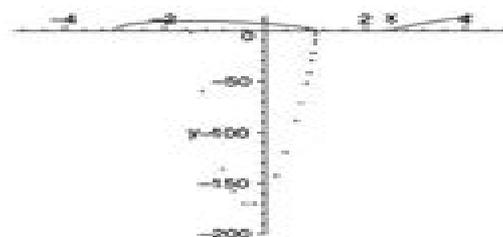
$$\begin{aligned} Q'(x) &= N(x) \cdot -1[D(x)]^{-2} \cdot D'(x) + [D(x)]^{-1} \cdot N'(x) \\ &= \frac{-N(x) \cdot D'(x) + N'(x) \cdot D(x)}{[D(x)]^2} \\ &= \frac{-N(x) \cdot D'(x) + N'(x) \cdot D(x)}{[D(x)]^2} \\ &= \frac{N'(x) \cdot D(x) - N(x) \cdot D'(x)}{[D(x)]^2} \end{aligned}$$

86. One might use the following: Composition of functions could be expressed as a process through which one function is evaluated using another function that falls in the original function's domain.

87. $(-2.145, -7.728)$ and $(2.145, 7.728)$



88. $(-1.475, 9.458)$



89.

$$\begin{aligned} f'(x) &= x \cdot \frac{-2x}{2\sqrt{4-x^2}} + \sqrt{4-x^2} \\ &= \frac{-x^2}{\sqrt{4-x^2}} + \frac{4-x^2}{\sqrt{4-x^2}} \\ &= \frac{4-2x^2}{\sqrt{4-x^2}} \end{aligned}$$

90.

$$\begin{aligned} f'(x) &= \frac{4 \cdot \sqrt{x-10} - 4x \cdot \frac{1}{2\sqrt{x-10}}}{x-10} \\ &= \frac{4(x-10) - 2x}{(x-10)^{3/2}} \\ &= \frac{2x-40}{(x-10)^{3/2}} \end{aligned}$$

Exercise Set 2.9

1. $y = 3x + 5$

$$\begin{aligned} \frac{dy}{dx} &= 3 \\ \frac{d^2y}{dx^2} &= 0 \end{aligned}$$

2. $y = -4x + 7$

$$\begin{aligned} \frac{dy}{dx} &= -4 \\ \frac{d^2y}{dx^2} &= 0 \end{aligned}$$

3. $y = -3(2x + 2)^{-1}$

$$\begin{aligned} \frac{dy}{dx} &= 3(2x + 2)^{-2}(2) = 6(2x + 2)^{-2} = \frac{6}{(2x + 2)^2} \\ \frac{d^2y}{dx^2} &= -12(2x + 2)^{-3}(2) = \frac{-24}{(2x + 2)^3} \end{aligned}$$

4. $y = -(3x - 4)^{-1}$

$$\begin{aligned} \frac{dy}{dx} &= (3x - 4)^{-2}(3) = \frac{3}{(3x - 4)^2} \\ \frac{d^2y}{dx^2} &= 3(-2)(3x - 4)^{-3}(3) = \frac{-18}{(3x - 4)^3} \end{aligned}$$

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