

3.6a Chain Rule

Use chain.tns to discover the amazing chain rule for derivatives of composite functions.

Sep 20-5:11 PM

Find $\frac{dy}{dx}$:

$$y = \sin(x^2 + x)$$

$$y = \sin^5 x$$

$$y = (x^3 + 2x - 1)^4$$

$$y = (x^3 - x)^5 \sin(4x)$$

$$y = \frac{x^2 \sin x}{\sec(3x^2)}$$

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If a particle moves along the x-axis so that its position is given by $x(t) = \cos(t^2 + 1)$, find the velocity.

Sep 20-5:18 PM