
Calculus Videos

Megan Martinez

February 17, 2017

Contents

I	Rate of change at a point	3
	Rate of change at a point	3
	Rate of change at a point	4
	Rate of change at a point	5
	Rate of change at a point	6
	Derivatives	7
	Derivatives	8
II	Curve Sketching	9
	Graphing Derivative Functions	9
	Graphing Derivative Functions	10
	Graphing Derivative Functions	11
	Graphing Derivative Functions	12
	Graphing Derivative Functions	13
	Graphing Derivative Functions	14

Part I

Rate of change at a point

Rate of change at a point

Introduction

On the next pages, you will watch videos and use interactives, and will then answer some questions about the video.

On the bottom of each screen you will see next and back buttons. Continue until the pages say stop, after the google form.

Rate of change at a point

Video: Approximating Instantaneous Rates of Change

YouTube link: <https://www.youtube.com/watch?v=M2Cpa3FxfUU>

Rate of change at a point

Interactive: Approximating Instantaneous Rates of Change

The embedded image on this page is currently broken and being fixed. In the meantime, please go to <https://geogebra.org/m/afsEHCg4>.

Geogebra link: <https://geogebra.org/m/afsEHCg4>

Rate of change at a point

Video: Over- and Under-estimates

YouTube link: <https://www.youtube.com/watch?v=1w9MxqF6JJc>

Learning outcomes:

Derivatives

Questions

Google Form link: https://docs.google.com/forms/d/e/1FAIpQLSfZUo0j1KZELVxCw75TgQg_XcUsl81gvjseGsELIpsf98mGSw

Learning outcomes:

Derivatives

Stop

This is the end of the Rate of change at a point section.

Learning outcomes:

Part II

Curve Sketching

Graphing Derivative Functions

Introduction

On the next page, you will watch a video on graphing derivative functions and will then answer some questions about the video.

Learning outcomes:

Graphing Derivative Functions

Video

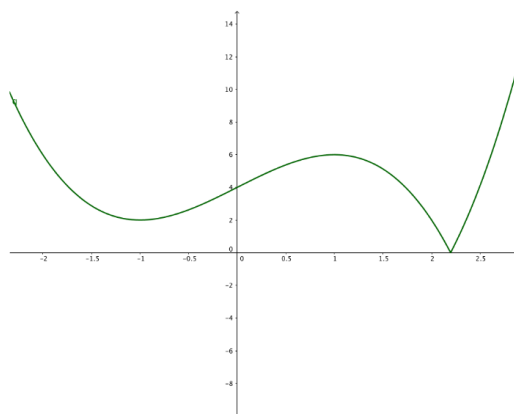
YouTube link: <https://www.youtube.com/watch?v=XbiKMDjFc8w>

Learning outcomes:

Graphing Derivative Functions

Question

Try it out! What will the derivative of this function look like?

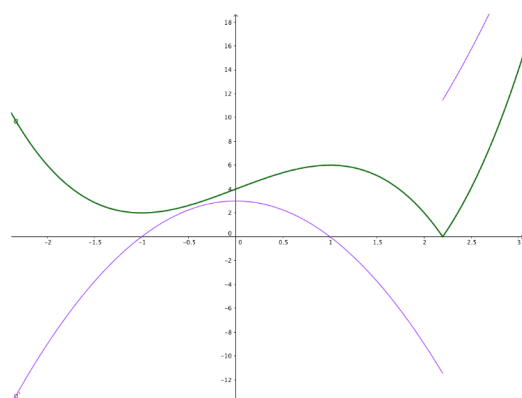


Learning outcomes:

Graphing Derivative Functions

Answer

Should be something similar to:



Learning outcomes:

Graphing Derivative Functions

Questions

Google Form link: <https://docs.google.com/forms/d/e/1FAIpQLSeJYFkuGEg8V7zBGTA-em0hijN-eX0b8U2->

Learning outcomes:

Graphing Derivative Functions

Stop

This is the end of the curve sketching section.

Learning outcomes: