Calculus Videos

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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.

 ${\rm Geogebra\ link:\ https://geogebra.org/m/afsEHCg4}$

Rate of change at a point

 $Video:\ Over-\ and\ Under-estimates$

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

Derivatives

Questions

 $Google\ Form\ link:\ https://docs.google.com/forms/d/e/1FAIpQLSfZUo0j1KZELVxCw75TgQg_XcUs181gvjseGsELIpsf98mGSw$

Derivatives

Stop

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

Part II Curve Sketching Curve Sketching

Introduction

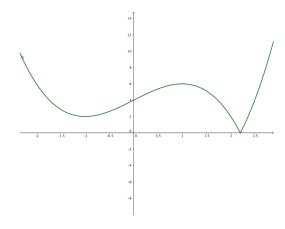
On the next page, you will watch a video on graphing derivative functions and will then answer some questions about the video.

Video

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

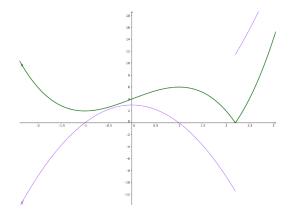
Question

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



Answer

Should be something similar to:



Questions

 $Google\ Form\ link:\ \texttt{https://docs.google.com/forms/d/e/1FAIpQLSeJYFkuGEg8V7zBGTA-emOhijN-eXOb8U2-emOhijN-exOb8U2-emOhijN-emOhijN-exOb8U2-emOhijN-emOhijN-emOhijN-emOhijN-emOhijN-emOhijN-emOhijN-emOhijN-e$

Stop

This is the end of the curve sketching section.

Part III The Power Rule The Power Rule

Introduction

On the next pages, you will watch a video about the power rule and will then answer some questions about the video.

The Power Rule

Video: The Power Rule

YouTube link: https://www.youtube.com/watch?v=kTxhvyGOwGO

Using Basic Derivative Rules

_		
Questions		

 $Google\ Form\ link:\ \texttt{https://docs.google.com/forms/d/e/1FAIpQLScReDMv7yMqgBjb70KR79339J1qbxIkjw0h}\ EF9NDCZQupGBQ$

Using Basic Derivative Rules

Stop

This is the end of the power rule section.

Part IV

More Derivative Rules More Derivative Rules

Introduction

On the next pages, you will watch a video about additional derivative rules and will then answer some questions about the video.

More Derivative Rules

Video

YouTube link: https://www.youtube.com/watch?v=VCaOgbCFufk

More Derivative Rules

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More Derivative Rules

Stop

This is the end of the more derivatives rules section.

${f Part\ V}$ The Chain Rule

The Chain Rule

Introduction

On the next page, you will watch a video on the chain rule and will then answer some questions about the video.

The Chain Rule

Video

YouTube link: https://www.youtube.com/watch?v=-khOG1MMZZ4

The Chain Rule

Questions

 $Google\ Form\ link:\ \texttt{https://docs.google.com/forms/d/e/1FAIpQLScgKQF5WIVVCMxqo6ImvjJ8TK0D6aJ6qRDD} and also considered the statement of th$

The Chain Rule

Stop

This is the end of the chain rule section.

Part VI Optimization Optimization

Introduction

On the next page, you will watch a video about the shapes of graphs, derivatives, and optimization and will then answer some questions about the video.

Optimization

Video

YouTube link: https://www.youtube.com/watch?v=UJCLC9HhzyA

Optimization

Questions

 $\label{local_google_com_forms_d/e/1FAIpQLSdfHrK1EG6GnItn8_EsUyaazPkiPPIIwUcsftHnYcjBju4QTQ} Google Form link: https://docs.google.com/forms/d/e/1FAIpQLSdfHrK1EG6GnItn8_EsUyaazPkiPPIIwUcsftHnYcjBju4QTQ$

Optimization

Stop

This is the end of the optimization section.

Part VII

Riemann Sums Riemann Sums

Introduction

On the next page, you will watch a video about Riemann Sums and will then answer some questions about the video.

Riemann Sums

Video

YouTube link: https://www.youtube.com/watch?v=e9s8rsPpIrA

Riemann Sums

Questions

 $Google\ Form\ link:\ \texttt{https://docs.google.com/forms/d/e/1FAIpQLSfZmQNCsQTA-ouLH2y70BMkiaslbhwaJBF2} and the statement of t$

Riemann Sums

Stop

This is the end of the Riemann Sums section.

Part VIII Indefinite Integrals Indefinite Integrals

Introduction

On the next page, you will watch a video about Indefinite Integrals and will then answer some questions about the video.

Indefinite Integrals

Video

YouTube link: https://www.youtube.com/watch?v=5xMXine8uDs

Indefinite Integrals

 $Google\ Form\ link:\ \texttt{https://docs.google.com/forms/d/e/1FAIpQLSdDXIYGg4gtr9cNPn0jbz0NX6Sd8CPdZTC-link} and the think is the think of the state o$

${\bf Indefinite\ Integrals}$

Stop

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