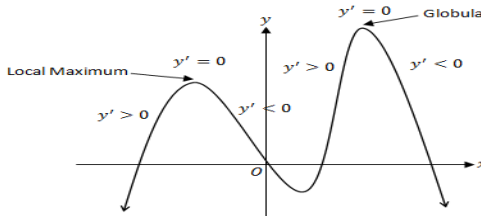


## Goals

By the end of this week, you should be able to:

- Use derivatives to solve practical problems
- Identify turning points and points of inflection
- Find the second derivative
- Apply applications of differentiation of trigonometric and exponential functions



## Theoretical Components

### STEP 1

Resources:

Maths Quest Year 12 Chapter 7 and Chapter 8  
(pdf on Google Drive)

No new theory for this week.

Further practice of differentiation

Differentiation of trigonometric functions

Applications of exponential functions and skills  
and concepts

## Practical Components

### STEP 2

Do the two mathspace.co custom tasks:

- **Applications differentiation of trigonometric functions**
- **Exponential Derivatives**

## Investigation

### STEP 3

Do the mathspace.co custom task:

- **Concavity – using second derivative**



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