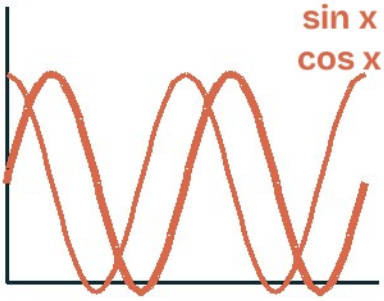
Precalculus

Get ready for calculus

WHAT IS IT?

Precalculus pulls together algebra, functions and trigonometry so calculus feels familiar. You study families of functions, such as lines, parabolas, exponentials and waves, and how to shift, stretch and combine them.



THE BIG IDEAS

1. Know the main function families and what their graphs look like.
2. Transform graphs: shift, stretch and flip them.
3. Exponentials and logarithms undo each other.
4. The unit circle connects angles in triangles to waves.

YOU SEE IT WHEN ...

- Savings that grow by a percentage each year
- Sound and light waves
- Graphs drawn by calculators and spreadsheets

WORDS YOU WILL MEET

Function
a rule giving one output for each input

Domain
all the inputs that are allowed

Range
all the outputs that can happen

Logarithm
the power a base needs to reach a number

Radian
angle measured along the arc of a circle

Sequence
an ordered list that follows a rule

GOOD TO KNOW FIRST

Algebra, functions and basic trigonometry.

IN YOUR COURSE YOU WILL ...

- Work with polynomial, exponential and log functions
- Use trigonometry and the unit circle
- Transform and combine graphs
- Study sequences and series

Start tip: Sketch each graph by hand before using a calculator.

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