

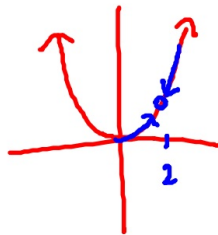
## L - Day 1

Algebraic, Graphical, Numeric, and Verbal approach to mathematics

I) Algebraic - understand the algebraic formula used to communicate the topic

$$L = \lim_{x \rightarrow 2} x^2 = \underline{4}$$

II) Graphical - be able to draw an accurate sketch or graph of the given equation



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III) Numeric - be able to create a table of values or understand the equation from a table of values.

$x$	$y$
1	1
1.9	3.61
1.99	3.9601
$\overline{2.01}$	4.0401
2.1	4.41
3	9

IV) Verbal - be able to write or verbalize the equation or problem.

The limit of  $x^2$  as  $x$  tends to 2 is 4.

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Using a calculator find each of the limits.

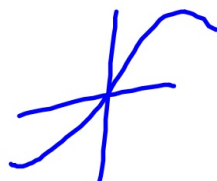
$$a) \lim_{x \rightarrow -3} 2x + 4 = -2$$

□

$$b) \lim_{x \rightarrow 2} e^x = 7.389$$

□

$$c) \lim_{x \rightarrow 0} \sin x = 0$$



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Calculus in 20 min - part 1

[http://www.youtube.com/watch?v=EX\\_is9LzFSY](http://www.youtube.com/watch?v=EX_is9LzFSY)

Calculus in 20 min - part 2

<http://www.youtube.com/watch?v=Q9OkFTDG4fY&feature=related>

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