


Don Bosco Technical Institute

## AP Physics C Prep

### Day 1, Part 8: Know Your Limits




## Limit Practice Problems

Calculate each of the following limits:

$\lim_{x \rightarrow 2} \frac{x^4 - 16}{x - 2} = 32$	$\lim_{x \rightarrow -2} \left( \frac{x^2}{x+2} + \frac{2x}{x+2} \right) = -2$
$\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{x^2 - 3x + 2} = -3$	$\lim_{x \rightarrow 1} \left( \frac{1}{x-1} - \frac{2}{x^2-1} \right) = \frac{1}{2}$
$\lim_{x \rightarrow 9} \frac{x^2 - 81}{\sqrt{x} - 3} = 108$	$\lim_{x \rightarrow 2} \left[ \frac{\left( \frac{1}{x} - \frac{1}{4} \right)}{x-2} \right] = -\frac{1}{4}$

Solutions available on the YouTube video  
Limits of Functions – part 4.  
<http://youtu.be/6iKyyqNIR0g>

Solutions available on the YouTube video  
Limits of Functions – part 5.  
<http://youtu.be/MSD2Gf-FcXc>



## Up Next...

- Video

AP Physics C Prep  
Day 1, Part 9: Derivatives and Tangents

This video will start automatically if you are using the AP Physics C Prep – Day 1 playlist

