

Limits “Boot Camp” for Calculus

- What is a limit?
- One-sided limits
- Properties of limits
- **Calculating limits**
- Squeeze Theorem
- Infinite Limits
- Limits at Infinity
- Continuity
- Important limits

Simple substitution

$$\lim_{x \rightarrow -4} 5 - x^2 =$$

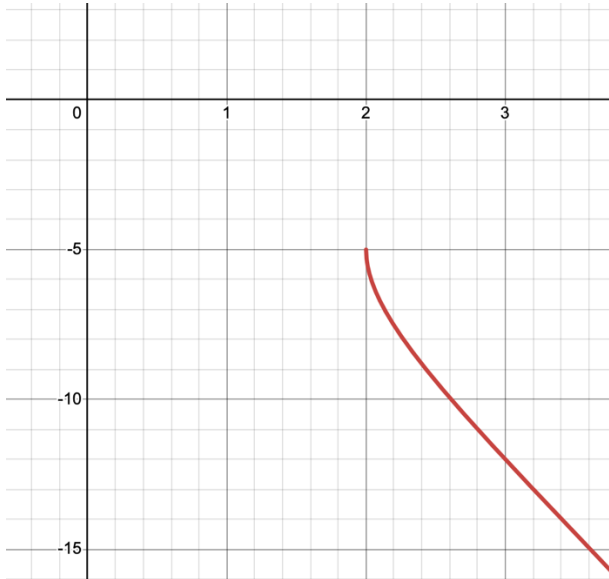
Indeterminate forms

$$\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{x^2 - x} =$$

$$\lim_{h \rightarrow 0} \frac{3(-4+h)^2 - 48}{h} =$$

$$\lim_{t \rightarrow 4} \frac{t - \sqrt{3t+4}}{4-t} =$$

$$\lim_{x \rightarrow 3} \frac{x^2 - 9}{1 - \sqrt{x-2}} =$$



$$\lim_{x \rightarrow -1} \frac{\sqrt{x+5} - 2}{x+1} =$$

$$\lim_{x \rightarrow a} \frac{x^3 - a^3}{x - a} =$$