

## Warm-up: 1.21.20

- 1) Get calculator and get out HW and ck sheet.
- 2) Get out Unit 1 Review.
- 3) Complete "Ticket" for warm up.

### Test Reminders

- 1) Bingo due
- 2) HW ck sheet
- 3) Rewrite a function to make "piecewise to continuous fix it"

- 4) Conjugate and complex fraction

$$\lim_{x \rightarrow 0} \frac{\frac{1}{x+3} - \frac{1}{3}}{x}$$

- 5) Finding value of variable

- 6) Definition of Continuity

$$7) \lim_{x \rightarrow 1} g(x) = 2 \quad \lim_{x \rightarrow 1} f(x) = 3$$

- 1)  $f(a) = \underline{\text{defined}}$
- 2)  $\lim_{x \rightarrow a}$  must exist
- 3)  $\lim_{x \rightarrow a} = f(a)$

# Ticket

1.  $\lim_{x \rightarrow 0} \frac{\sin^2 x}{x^2}$  D.S.  $\Rightarrow$  und

$$\left( \lim_{x \rightarrow 0} \frac{\sin x}{x} \right) \cdot \left( \lim_{x \rightarrow 0} \frac{\sin x}{x} \right) =$$

$$\lim_{x \rightarrow -1} \frac{2x^2 - x - 3}{x + 1} = \frac{(2x-3)\cancel{(x+1)}}{\cancel{x+1}}$$

D.S.  $\Rightarrow$  und.

$$\lim_{x \rightarrow -1} 2(-1) - 3 =$$

$$\textcircled{-5}$$

