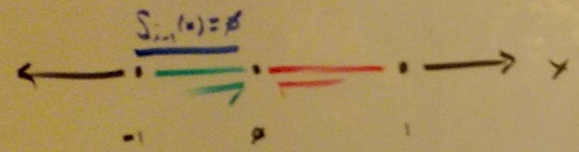
$$S(x) = \begin{cases} x & -1 \le x \le 0 \\ 1-(x-1)^2 & 0 \le x \le 1 \end{cases}$$



$$\lim_{x \to 0^-} S_{i-1}^{(m-1)}(x) \neq \lim_{x \to 0^+} S_{i+1}^{(m-1)}(x)$$

$$\lim_{x \to 0^-} S_{i-1}^{(1)}(x) \neq \lim_{x \to 0^+} S_{i+1}^{(1)}(x)$$

$$\lim_{x \to 0^-} x \neq \lim_{x \to 0^+} 2x - 2$$

$$0 \neq 2$$

$S(x)$ IS NOT A SPLINE

2 EXAMS
MATH 388 EXAM
WED.
FRI MAC HAS EXAM