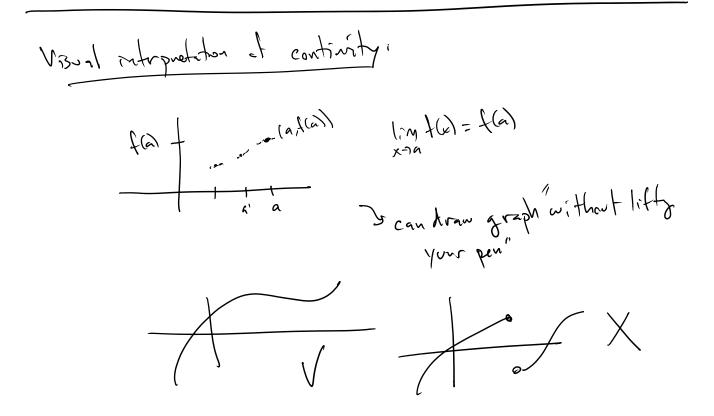
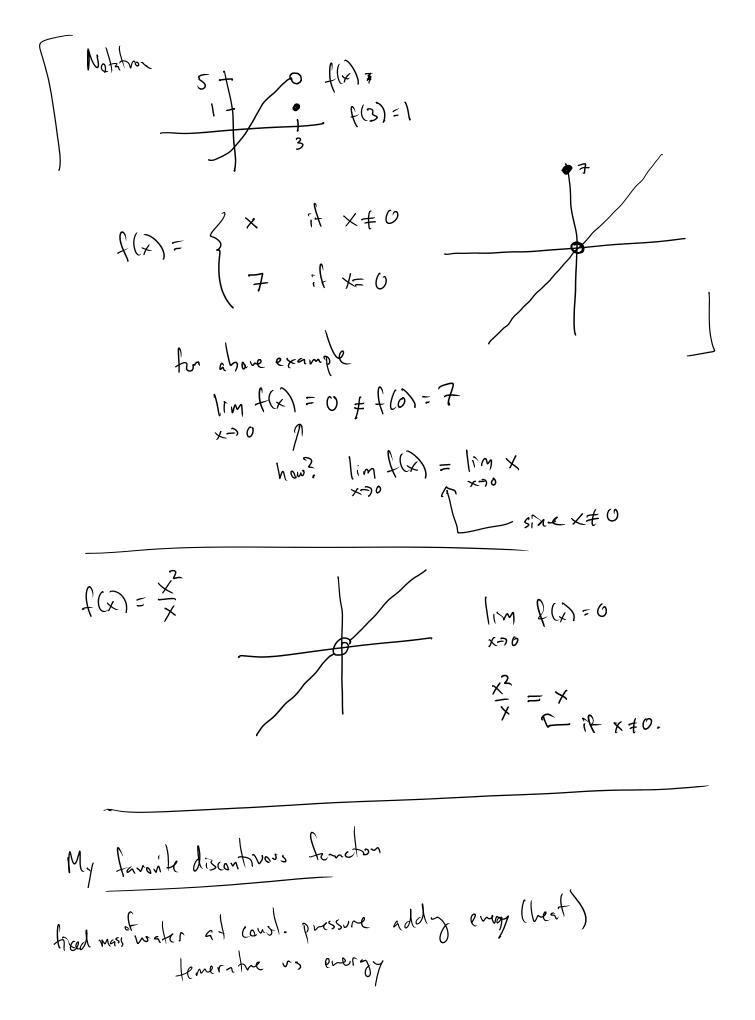
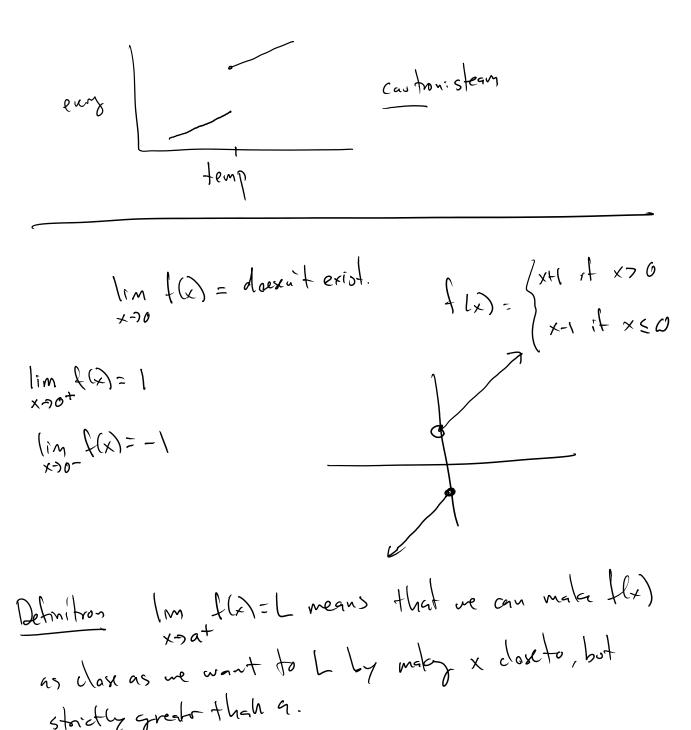
Lecture 4: One-sided limits and continuity, slopes and tangent lines

Thursday, January 19, 2017 12:31 PM







$$\frac{1}{1+h-1} = \frac{2h+h^2}{h} = 2+h$$
as legets smaller, this gets other to 2

$$\frac{1}{h} = \frac{2h+h^2}{h} = 2+h$$
as legets smaller, this gets other to 2

$$\frac{1}{h} = \frac{2h+h^2}{2} = 2+h$$

$$\frac{1}{h} = \frac{1}{1+2}$$

$$\frac{1}{1+2} = \frac{1}{1+$$

h
=
$$\lim_{h \to 0} \frac{2 - (2 + h)}{2(2 + h)h} = \lim_{h \to 0} \frac{-h}{2(2 + h)h}$$

$$= \lim_{k \to 0} \frac{-1}{2(24k)} = -\frac{1}{4}$$