Sec 1.4 Continuity

Formal defⁿ of continuity in book: (Get one.)

A fn is continuous if

In Math

1) $f(c)$ is defined

2) $\lim_{x \to c} f(x)$ exists

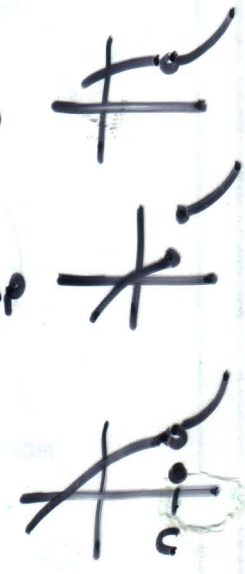
3) $\lim_{x \to c} f(x) = f(c)$

In Eng

1) No holes

2) No jumps or asymp

3) No dot piecewise



In Kinder . . . can't lift pencil off page

Removable discontinuity	Nonremovable discont.
hole	jump, asymp.

If Discontinuous!

~~lim exists~~ → you have a hole

lim DNE → you have a jump, asymp