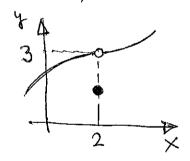
- 1. (C) I... f(0) is not defined

 I and III are compositions of continuous

 Frations, and ex+170, ex 70 (so that low
 is defined)
- 2. f'(x) = cos (cos (sin (cosx)). (-sin (sin (cosx)).

 (H) cos (cos(x)). (-sinx)

 so f'(o) = o since x is zero (no need to codculate remaining terms)
- 3. FALSE; need a counterexample



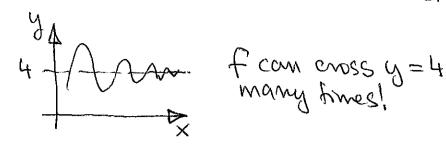
lim f(x) = 3, but $f(2) \pm 3$ so f(s) not cont. at x = 2

or, algebraic example:

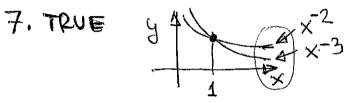
$$f(x) = \begin{cases} 0 & x = 2 \\ 0 & x \neq 2 \end{cases}$$

- 4. FALSE; can use same counterexamples as for #3
- 5. FALSE; a function can intersect its horizontal asymptote





6. TRUE; fis a composition of two continuous finations (VX is cont. when x >0)



Let $f(x) = \frac{1}{x}$, $g(x) = \frac{1}{x^2}$ then f(x) > g(x) for x > 18. FALSE; need a counterexample

but lim fox = lim gox = 0

9, FALSE; units of n'(+) are monkeys day

- Units of n'tt) are monkeys/monkey

10. TRUE; slope of y = cosx is y'=-sinx -- largest value 6 1