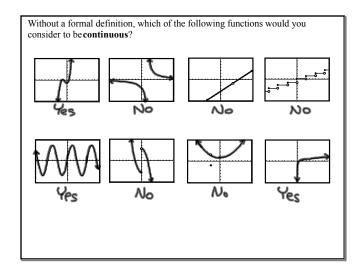
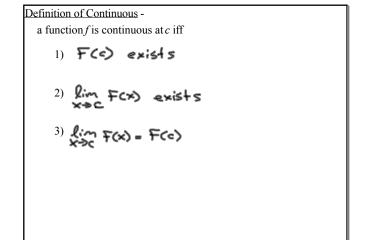
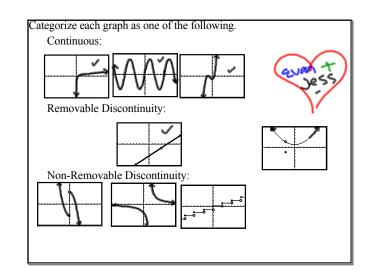
Calculus AB

1-4 (Day 1) Continuity







Find the limit (if it exists). If it does not exist, explain why.

7)
$$\lim_{x \to 5^+} \frac{x-5}{x^2-25} = 25$$

*)
$$\lim_{x \to 4^{-}} \frac{x - 4}{|x - 4|} = -1$$

Find the x values (if any) at which f is not continuous. Which of the discontinuities are removable?

37)
$$f(x) = \frac{x}{x^2 + 1}$$
 No problems

af(6x-c)+d aten(6x-c)+d

49)
$$f(x) = \begin{cases} \frac{\tan \frac{\pi x}{4}}{4}, |x| < 1 \\ x, |x| \ge 1 \end{cases}$$

continuous

Assignment:

Pg. 78

1-5 odd,

7-57 odd

I gave the odds, so check the answers as you go.

A helpful guide to math (calculus) homework. If you get stuck on a problem, go to the next. The more problems you attempt, the more you learn from the assignment. If you don't know how to do a whole section of problems, go to the next.

In this assignment, the problems in the 7 - 21 section get pretty tough, so make sure you try some from the rest, which really aren't all that bad.