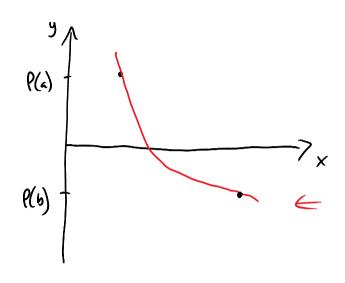
Section 4.1 44.2: contid

Wednesday, January 28, 2015 12:29 PM

Intermediate Value Theorem:



continuous so the line joining the two points must cross the x-axis somewhere between a and b

example: for $P(x) = x^4 - 3x^2 + x - 1$, is there a zero between

a)
$$a = -3$$
 and $b = -2$?

b)
$$a = -1$$
?

a) plug those valves into P(x):

$$P(-3) = 50$$

$$P(-3) = 1$$

$$y$$

$$y$$

