AP Calculus AB Wednesday, April 17, 2013

HEADBANZ

Present two more problems
Derivatives/Integrals of natural log, e, and inverse trig functions

Go over diagnostic

9. Find all points of extrema on the interval $[0,2\pi]$ if $y = x + \sin x$.

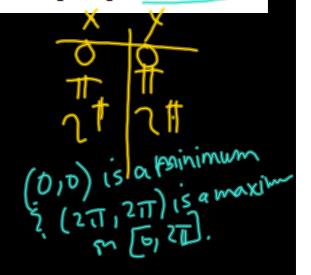
$$y = X + Si \cap X$$

$$y' = | + CoSX$$

$$0 = | + coSX$$

$$CoSX = -|$$

$$X = \pi$$



10. Which of the following statements is true of $f(x) = -x^3 + 18x^2 - 105x + 198$?

$$f'(x) = -3x^{2} + 36x - 105$$

$$-3(x^{2} - 12x + 35)$$

$$(x) = -3(x - 7)(x - 5) = 0$$

$$x = 0$$

$$x$$

11. Let f and g be differentiable functions with the following characteristics:

$$f(3)=2$$

II.
$$f'(3)=-1$$

III.
$$g(3) = 1$$

IV.
$$g'(3)=4$$

If h(x) = f(x)g(x), then $h^{\prime}(3) =$

y = ex logey=x lny=x probabex probabex y'= y y'= y

logsy=x
change of base than slogba = log a
lny = x
ln2
lny = xln2
lny = xln2
y'= ln2
y'= ex:lne
y'= ex:lne
y'= ex:lne