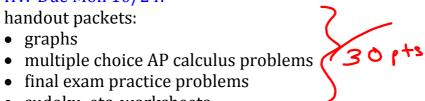
HW Due Mon 10/24:

handout packets:

- sudoku, etc. worksheets



Review Session: 3:30pm Tues 10/28

Exam: 9:00am Wed 10/29

- All A's on all 4 tests (after bonus pts) --> exempt from final (unless you want to take it because HW and quizzes are keeping you from an A in the class)
- Lowest of 4 regular test grades will be dropped (if it helps you)
- Final Exam can replace 2nd lowest test grade (if it helps you)

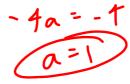
If
$$f(x) = \begin{cases} ax^2 + b \end{cases}$$
, $x \ge -2$

f is cts. & diff. @ x =-2 what is a+b?

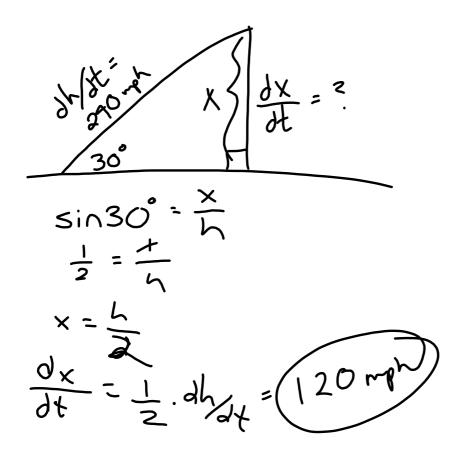
$$a(-2)^2+b=-9(-2)$$
 & $2a(-2)=-4$



$$2a(-2) = -4$$



Diff Cal - Review October 27, 2014



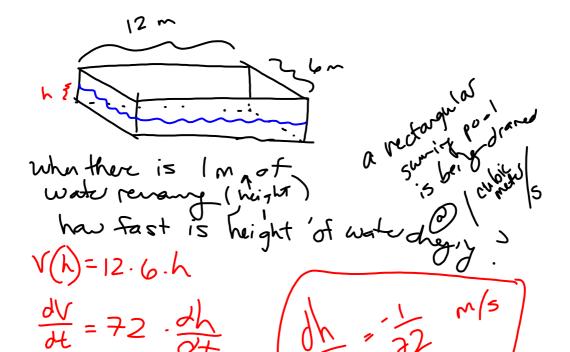
$$3x^{2} + 2xy + y^{2} = 2$$

$$y' = f(x,y)$$

$$3 + 2y + y^{2} = 2$$

$$y^{2} + 2y + 1 = 6$$

$$(y+)^{2} = 0 \quad y = -1$$



 $V = \frac{1}{3}\pi \left(\frac{d}{2}\right)^{2}h$ $V = \frac{1}{3}\pi \left(\frac{d}{2}\right)^{2}h$ $V = \frac{1}{3}\pi \left(\frac{d}{2}\right)^{2}h$ $V = \frac{25\pi}{12}h^{3}$ $\frac{dV}{dt} = \frac{25\pi}{4}h^{2}.dh$

-1=72.dh

dianeter of piles 5 x height
height is grown @ 1 ft/5.
how fast is volume gravity
when pile is 10 ft across. $\frac{dV}{dt} = \frac{25\pi}{4}.(2).1$ $= \frac{25\pi}{4}.5$