3 Strikes Yer Out!

$$\int_{2^{NO} \text{ TRY... 3 POINTS}} y \text{ orksheet A - 4.5}$$

$$\int_{3^{RO} \text{ TRY... High five!}} y \text{ orksheet A - 4.5}$$

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$$\int_{3^{RO}$$

2. Use the linearization in #1 to estimate f(-0.99). L(-0.99) = 14(-0.99+1) + 6 = .14 + 6 = 16.14

3. Find the exact value of f(-0.99) and then find the approximation error.

$$f(-0.99) = (1.144081423)$$

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Fror 5.00408
Emor is less than 10^{-2} .



$$\frac{dy}{dx} = 7 \times -3$$

$$dy = (7 \times -3) d \times$$

$$dy = (7 \times -3)(.03) = 25 \cdot (.03) = \frac{1.75}{1.75}$$

2. Given the function:
$$f(x) = \frac{x-4}{x+2}$$
, $x = 1$, $dx = .02$. Find the:

a) true change $f(1.02) - f(1) = -.9867549669 + 1 \times 0.013245$

3. How accurately should you measure the radius of a sphere so that the surface area is within 5% of its true value?



A slinky, which is essentially a cylinder, is being stretched apart. The length of the slinky is stretching at a rate of 4 cm per second, and the volume of the slinky stays constant. At what rate is the radius of the slinky shrinking when the radius is 3 cm and the length is 10 cm?





Mike is at a birthday party and decides it would be funny to suck the helium out of a spherical balloon. If Mike can suck the helium out of the balloon at a rate of 4 cubic inches per second, at what rate will the radius be shrinking when the radius is 2 inches?



Names:

Worksheet	1 st Attempt – 3 points	2 nd Attempt – 2 points	3 rd Attempt – HIGH FIVE!
A			
В			
с			
D			
Total Points			

3 Strikes Yer Out Rules

- 1) Each worksheet has 1-3 problems. After you are done, bring up the one you finished for grading.
- 2) You must *work together* so that each group member is at the same pace.

Note: Hitchhiking is illegal in Calculus!!

- 3) When your **whole group** is finished with the worksheet, one person should bring *ALL* worksheets to check with me. Bring your *score sheet* with you!!
- 4) Scoring:
 - If your group gets *ALL* problems correct the first time, you will receive 3 points (to be written on the score sheet).
 - Otherwise, you will have to take your sheet, go back, and correct them....on the second time, you will receive 2 points.
 -on the third time...it's a HIGH FIVE FOR YOU!!

Good Luck!!