Homework #2

Due Friday (October 4th)

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. What does AROC, ROC (or IROC), and PROC st	and for?

2. Complete the table below

Types Of Change	Formula	Units	Key Phrases
Change	$f(x_2) - f(x_1)$ (or $y_2 - y_1$)	Output Units	"increased(es)/decreased(es)
			by $f(x)$ output units "
Percent Change			"increased(es)/decreased(es)
			by $f(x)$ %"
AROC			"increased(es)/decreased(es)
			on average by $f(x)$ output
			units per input units"
ROC (or IROC)			"increasing/decreasing by
			f(x) output units per input
			units"
PROC			"increasing/decreasing by
			f(x)% per input units"

- 3. Write the type of change described in each sentence. Highlight the key phrases in each sentence which led you to your answer.
 - In November 2016, the number of Facebook users was increasing by 2 thousand per month.
 - Between May 2006 and May 2007, the number of Facebook users increased by 89.4%.
 - From May 2006 to May 2007, the number of Facebook users increased on average by 1.048 thousand per month.
 - Between May 2006 and May 2007, the number of Facebook users increased by 12.58 thousand.
 - In November 2006, the number of Facebook users was increasing by 12.5% per month
- 4. v(t) meters per second is the velocity of an apple t seconds after it falls from a tree. Suppose v(0) = 0, v(1) = 9.81 and v'(1) = 4.905.
- 4.a. Give a sentence of interpretation for v(1) = 9.81 (this means give a sentence of interpretation for the ordered pair (1,9.81)).

