Homework Assignments (Under Construction):

| SEC | Problems |
|---|---|
| 1.1 | #s 21, 25 – 43, 47 – 59, 63, 73, 77 (Odds only) |
| 1.2 | #s 5, 7, 9, 13 (Not a whole lot assigned. You should read and ask questions, though.) |
| 1.3 | #s 17 – 23, 27 – 31, 35, 43, 51, 54 (All odds, except for #54) |
| 1.4 | #s 5, 9 |
| 1.5 | #s 1, 3, 5, 6, 7, 11, 15, 19, 23[1], 25[2], 27, 29, 35, 38 |
| 1.6 | #s 1, 2, 5, 9, 11, 13, 18Bonus, 23, 25, 31, 39, 43, 45, 46, 47a, 49, Read #54, 58*, 67 |
| 1.7 | #s 1, 11, 17, 18, 29, 32, 37 |
| 1.8 | #s 1, 3, 4, 7, 13, 17, 19, 21, 41, 64 |
| 2.1 | #s 1, 3, 4, 7, 8, 11, 12, 13[3], 33, 35 – 53 and 54 are Bonus |
| 2.2 | #s 5 – 11 Odds, 19, 23 – 25 ALL 41, 43 |
| 2.3 I | #s 1 – 15 Odds, 17[4], 19[5], 23 – 35 Odds (Due Thursday) |
| 2.3 II | #s 51, 52, 55, 57, 59, 63, 67, 69, 73, 75, 77, 79, 81, 89 (Due Friday) |
| 2.4 | #s 3 – 25,31, 33, 35, 39, 43, 52B |
| 2.5 | #s 1 – 31, 55, 70, 73 |
| 2.6 | #s 1 – 27, 45, 47 |
| 2.7 | #s 3 – 17, 23 |
| 2.8 | #s 3 – 17, 23 |
| 2.9 | #s 3 - 35 |

[1]We will eventually do this sort of limit analytically (i.e., with algebra techniques)

[2] $FACT: x^n - 1 = (x-1)\left(x^{n-1} + x^{n-2} + .... + x^2 + x + 1\right)$, e.g. $x^3 - 1 = (x-1)\left(x^2 + x + 1\right)$ This is a fun fact(orization) that we will use to prove our power rule for derivatives in a week or so.

[3] This one should look familiar.

[4] There's a quick way to work this, if you're good with Algebra.

[5] Same as #4, but it's even BETTER if you learn the Chain Rule, and apply IT to this power of a function. Chain Rule doesn't kick in until Section 2.5, ALAS!!! So let's talk about that one and leave it blank, with LOTS of room after it.