**Calculus Honors Chapter 4 Homework Assignments**

In addition to these assignments, review worksheets and readings may be given. Please label each homework assignment with the assignment name, page(s) and problems.

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| **Assignment Name** | **Pages and Problems** | **Completed** |
| 4.1 A  | p. 255 # 15-39 multiples of 3 |  |
| 4.1 B | p. 256 # 47, 48, 55, 59, 61 |  |
| 4.1 C | p. 256 # 63, 64, 67, 70, 77 |  |
| 4.1 D | p. 255 # 16-40 even, 56, 62 |  |
| 4.1 E | Finish Review Sheet |  |
| 4.2, 4.6 A | Finish 4.2 & 4.6 Day 1 Worksheet |  |
| 4.2, 4.6 B | Finish 4.2 & 4.6 Day 2 Worksheet |  |
| 4.2, 4.6 C | Finish 4.2 & 4.6 Day 3 Worksheet &p. 314 # 1-3, 39, 40 (Trapezoid Rule only) |  |
| 4.3 A | p. 278 # 13-19 odd and 23-29 odd |  |
| 4.3 B | p. 279 # 33-42 |  |
| 4.4 A  | p. 291 # 5-21 odd  |  |
| 4.4 B | p. 291 # 33-41 odd  |  |
| 4.4 C | Finish Worksheet from class |  |
| 4.4 D  | Finish Review Sheet |  |
| 4.5 A | p. 304 # 7, 9, 13, 15, 19, 23, 25, 27, 31 |  |
| 4.5 B | p. 305 # 73-76, 81, 82, **93, 95** **with graphing calculator** |  |
| 4.5 C | p. 304 # 43, 45, 47, 51, 53, 57, 59, 61 |  |
| 4.5 D | Finish Worksheet from class |  |
| 4.5 E | p. 305 # 71-78 |  |
| 4.5 F | Finish Review Sheet |  |

**Big Ideas Learned in Chapter 4**

* Approximate the area of a plane region (between a curve and the *x*-axis) using the Left, Right, Midpoint, and Trapezoidal Approximation Methods.
* Evaluate a definite integral using area.
* Evaluate a definite integral using properties of definite integrals.
* Write the general solution of a differential equation.
* Use indefinite integral notation for antiderivatives.
* Use basic integration rules to find antiderivatives.
* Find a particular solution of a differential equation.
* Evaluate a definite integral using the Fundamental Theorem of Calculus.
* Use pattern recognition to find an indefinite integral.
* Use a change of variables (u-substitution) to find an indefinite integral or evaluate a definite integral.
* Use the General Power Rule for Integration to find an indefinite integral or evaluate a definite integral.
* Evaluate a definite integral involving an even or odd function.

**Topics I need to review before the Chapter Test:**