**Sections 4.4-4.6 & 7.1-7.2 Exam Study Guide**

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| *Section* | *Problems* |
| Section 4.4  The Fundamental Theorem of Calculus | CPB P. 103 Exc 858, 860, 864, 866-869, 871, 874-876  CPB P. 107 Exc 926, 929, 932, 936-938, 941  Textbook P. 291 Exc 10, 15, 19, 23-26, 27-32  Textbook P. 293 Exc 78, 80, 82, 84, 86, 91-92 |
| Section 4.5  Integration by Substitution | CPB P. 104 Exc 885-889, 893-894, 897, 900, 907, 910  Textbook P. 304-305 Exc 26, 30, 34, 45, 48, 50, 51, 52, 53, 55 |
| Section 4.6  Numerical Integration | Not Tested on this exam |
| Section 7.1  Area of a Region Between Two Curves | Textbook P. 452-453 Exc 17, 20, 21, 24, 26, 30, 37, 43, 45, 46, 48 |
| Section 7.2  Volume: The Disk Method | CPB P. 136 Exc 1120-1124  Textbook P.463 Exc 11-14, 18, 21, 23, 24 |

**\*\*\*Assignments 64-72 also serve as a good review for the exam**

The following Rules will be emphasized on the exam. The rules are found in the cardstock page of your textbook:

*Differential Rules:* 10, 12 – 18*; Integration Formulas*: 4- 15

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| **Assignment #** | **Topic(s)** | **Assignment** | **Score** |
| 69 | Volume, Area Between two curves, ,MVT, FTC | Section 7-2 Exc 22 & 40  Section 7-1 Exc 67, 71  Section 4.4 Exc 25, 45, 46  Section 4.5 Exc 26, 48  CPB Exc 111, 116, 119 |  |
| 70 | MVT, Definite Integrals, FTC, Area Under two Curves | CPB Exc 926, 935, 937, 945, 951, 976, 980, 1093  CPB Exc 15 (Find the area) |  |
| 71 | Area Between Two Curves, Volume, MVT, Definite Integrals | Section 7-2 Exc 17 & 33  Section 7-1 Exc 50 & 51  Section 4-4 Exc 25, 31, 44  Section 4-5 Exc 70, 74  Section 4-6 Exc 16 |  |
| 72 | Work on Study Guide | Section 7-2 Exc 47, 61  Section 7-1 Exc 48  Section 2-2 Exc 19, 37, 52  Section 2-3 Exc 36, 48, 72  Section 2-4 Exc 22, 32, 56 |  |