Text:   **Introduction to Calculus, Purdue MA15910- Pearson Custom Edition for Purdue University, Taken from Algebra for College Student, 6th ed. (Lial, Hornsby, McGinnis) and Calculus with Application, 10 ed. (Lial, Greenwell, Ritchey)**

A one-line, scientific calculator with logarithm and exponential functions is required.  Graphing calculators or programmable calculators **may not** be used.  Calculators which are capable of numerical or symbolic differentiation or integration are considered programmable and are not allowed. The suggested calculator is a TI-30XA.   All graphs for paper homework must be sketched by hand on paper or graph paper.  **Problems in bold print below should be completed on paper and may be collected by the instructor and scored as a quiz.**

> Note:  Sections in normal print are found in part I (algebra half) of the textbook, sections found in bold print are found in part II (calculus half) of the textbook.

> Problems in bold print are to be completed on paper and **may be** collected by your instructor.  Problems that are not in bold print will be on MyMathLab and will be numbered 1, 2, 3, etc.

| Lessons | Sections | Assignments |
|---|---|---|
| 1(a&b) | | course information discussed, |
| | 5.2, R.1 | **Algebra part**, p. 305:  5, 21, **22**, 41, **42**, 47, **48**, 55, **56**, **62,** 69, **70**, 71, **72**, 81; |
| | | **Calculus part**, p. R-5: 3, **4**, 5, **6** |
| 2 (a&b) | | **Algebra part,** p. 210:  5, 7, 11, 13, **14**, **16**, 17, 19, 21, 23, **24**, 25, **26**, 27, **28**, 31, |
| | 3.5, 7.4 | **32**, 33, **34**, 35, **36**, 37, **38**, 43, 45, **46**, 49, **50**, 51, **52**, 53, **54**, 55, 57, **58**, **60**, 61, |
| | **1.2, 2.1** | **62**, 63, **64**, 65, **66**, 67, **68**, **72**, 75, **76**, **78**, 81,  **82, 86**, 87, **90**; |
| | | p. 423:  **6**, 7, 9, **10** |
| | | **Calculus part**, p. 23:  3, 5, **6**, 9, **10**, 19, **27(b,e,i)**, **33(a,b,c)**, **35(a-f)**; |
| | | p. 53: 1, **2**, 3, **4**, 5, **6**, **8**, 17, **18**, **22**, 23, **24**, 25, **26**, 33, **34**, **35**, 37, **38**, **40**, 41, 43, |
| | | **47**, 49, **50**, **51**, 55,  57, **58**, 59, 61, **62, 76(a)** |
| 3a | 5.4, **R.1** | **Algebra part,** p. 324:  7, **10**, **12**, 13, 15, 19, 21, 23, 25, 27, 31, 33, 35, **40**, 47, 53, |
| | | 57, 59, 61, 63, 79, **85**, **89**, **98**, 99, **100** |
| | | **Calculus part**, p. R-5:  9, **11**, 15, 21, 23 |
| 3b | 5.4, **R.1** | **More on polynomials,** *worksheet of problems* (The worksheet will be available on the web page and may also be emailed to students as an attachment.) |
| 4 | 2.1, 7.4 | **Algebra part,** p. 61:  13, 19, 21, 25, 31, 35, **40**, 53, 57, 61, 65 |
| | **R.4** | p. 423:  7, 19, 23, 27, 29, 35, 39 |
| | | **Calculus part,** p. R-16:  3, **4**, 5, **29** |
| 5 | 2.3, 2.4 | **Algebra part**, p. 81:  31, 39, 47, 49, 51, 53, 55, 59 |
| | 7.5, 9.3 | p. 92:  21, 23, 25, **26**, **28**, 31, 41 |
| | | p. 435:  43, 45, 49, 51, 53, 55, 57 |
| 6 | 6.5, 9.3, | **Algebra part**, p. 376:  7, 11, 17, 23, 29, 33, 37, **43** |
| | **R.4** | p. 567:  **3, 5, 7, 11, 14, 17, 21** |
| | | p. 564:  19, 23, 25, **27** |
| | | Summary:  p. 567:  **3, 5, 7, 11, 14, 17, 21** |
| | | **Calculus** part,  p. R-16:  9, **11**, 13, 15, **19**, 21, 23, **24**, 25, **29**, 31, 33, **34** |
| 7 | 9.3, 9.4 | **Algebra part**, p. 565:  35, 36, 37, 38, 39, 41, 42 |
| | | p. 573:  29, 31, 32, 33, 35, 37, 38, 41, 43, 45 |
| | | possible worksheet of additional problems |
| 8 | 3.2, 3.3 | **Algebra part**, p. 170:  21, 23, 25, 27, 31, 33, 35, 37, **38**, 39, **40**,  41, 43, 45, 47, |
| | **1.1** | 49, 53, **55**, 59, 61 |
| | | p. 186:  (**7 – 14 all**), 19, 21, 25, 27, 29, 33, 37, 39, 43, 47, 53, 57, 77, 79, **81**, **83** |
| | | **Calculus part**, p. 13:  **16**, **18**, **19, 20, 21, 24, 26**, 45, **47**, 49, **51,** 53, **55**, 57, **61**, **63(a,b), 64, 68, 69, 70, 72, 74** |

**February 9th  & 11th     REVIEW FOR EXAM 1 (attendance not required on the 11th)**
**February 11th        Exam 1, Wednesday evening exam, Location Elliott Hall of Music, 8:00 – 9:00 PM**

| 9 | **3.1** | **Calculus part**, p. 135:  5, 7, 9, **10**, 11, 15, **17**, 19, 31, 33, 35, **37** |

| | | |
|---|---|---|
| 10 | **3.1** | **Calculus part**, <u>p. 135</u>: **32, 34, 36, 38**, 39, **41**, 43, 45, 47, 49, 51, **53, 54, 55, 56**, 83, 91 |
| 11 | **3.3** | **Calculus part**, <u>p.158</u>: 1, 3, 5, 9, **12**, 17, 25(a-d), **26(a-d)**, **29(a,b), 33, 42(b,c)** |
| 12 | **3.4** | **Calculus part**, <u>p. 176</u>: **11**, 13, 15, 21, 23, **25**, 35, **36**, 37, 49, **51, 56(a,b)** |
| 13 | **4.1** | **Calculus part**, <u>p. 207</u>: 1, 3, **4, 5, 7, 8**, 9, **10**, 11, **12**, 13, **15, 16, 17**, 19, **20, 21**, 23, **24**, 27, **28**, 29 |
| 14 | **4.1** | **Calculus part**, <u>p. 207</u>: 31, **32**, 33, **35**, 37, 39, 41, 43, 45, 51, **52, 56, 60, 67(c)**, 69, **71, 73** |
| 15 | **4.2** | **Calculus part**, <u>p. 216</u>: 1, 3, 5, 7, 9, **29, 34**, 39, **50** |
| 16 | **4.2** | **Calculus part**, <u>p. 216</u>: 11, 13, **15**, 17, 19, **21**, 23, **25**, 30, 31, **33, 35, 40**, 41, 43, 53, 54 |
| 17 | **4.3** | **Calculus part**, <u>p. 225</u>: 7, 11, 13, 15, 17, 19, 21, 23, 25, 28, 29, 31 |
| 18 | **4.3** | **Calculus part**, <u>p. 225</u>: 43, 45, 47, 49, 50, 54(a,b,c), 55(a,b), 57(a,b), 62(a-c), 63(a-c) |

**March 9<sup>th</sup> & 11<sup>th</sup>**        **REVIEW FOR EXAM 2 (attendance not required on the 11<sup>th</sup>)**
**March 11<sup>th</sup>**              **Exam 2, Wednesday evening exam, Location Elliott Hall of Music, 8:00 – 9:00 PM**

| | | |
|---|---|---|
| 19 | **2.4** | **Calculus part**, <u>p. 86</u>: 13, 15, 18, 19, 21, 23, **25**, 27, 37, **39, 40, 42**, 43, 47, **48(a,b)** |
| 20 | **4.4** | **Calculus part**, <u>p. 232</u>: 1, 3, 5, 7, 9, **11**, 13, **15, 17**, 19, **21**, 23, 38, 41, **42**, 45, **58(a-c)** |

March 23<sup>rd</sup>             LAST DAY TO WITHDRAW FROM THE COURSE (WILL RECEIVE A 'W')

| | | |
|---|---|---|
| 21 | **2.5** | **Calculus part,** <u>p. 98</u>1, 1, 3, 5, 7, **9**, 12, 13, 15, 17, **19,** 21, 27, 29, 31, 33, 35, 37, **39,** 41, 43, 45, 47, **49,** 51, **53**, 57, 59, **61**, **77, 90(b,d),  92(a,b)** |
| 22 | **4.5** | **Calculus part**, <u>p. 240</u>: 1, 3, 7, 10, 13, 15, 17, 23,  47, **56 (a-c),  57(a,b), 64 (a,c), 65** |
| 23 | **5.1** | **Calculus part**, <u>p. 260</u>: 1, 3, 5, 7, 13, **15**, 17, 19, 21, 23, 25, 28, **29, 31, 33,** 46, 47, **52**, 55 |
| 24 | **5.2** | **Calculus part**, <u>p. 271</u>: 5, 13, 15, 17, 19, 21, 25, 29, 31, **35**, 41, **43**, 46, **47**, 49, 57 |
| 25 | **5.3** | **Calculus part**, <u>p. 283</u>: 1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 23, **25(a),** 27, **29**, 31, **33**, 35,  37, **39**, 41, 45,  **87**, 91,  93 |
| 26 | 12.4, **3.1** | **Algebra part**, <u>p. 785</u>: 15, **17**, 19, 21, 23, **25**, 27  (Only find the equations of any horizontal or vertical asymptotes for these problems .) |
| | | **Calculus part**, <u>p. 137</u>:  all problems 43, **44,** 45, **46,** 47, **48**, 49, **50**, 51, **52** |
| 27 | **5.4** | **Calculus part**, <u>p. 294</u>: 3, **4**, 5, **6**, 7, **8, 9**, 11, 13 |

**March 10<sup>th</sup> & 13<sup>th</sup>**       **REIVEW FOR EXAM 3 (attendance not required on the 13<sup>th</sup>)**

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|---|---|---|
| 28 | **5.4** | **Calculus part**, <u>p. 294</u>: 15, **17, 18,  19, 20,** 21, **23**, 25 |
| 29 | **6.1** | **Calculus part**, <u>p. 310</u>: 11, 13, 15, 17, **19,** 20, 21, 25, 31, **33**, 36, **37**, **44**, 45, **51, 52, 55**, 56 |
| 30 | **6.2** | **Calculus part**, <u>p.318</u>:  **1, 7, 8**, **9**, **10, 11**  (no problems on MyMathLab, all problems on paper)  **I expect to see your work/steps for these problems, not just an answer sheet.** |
| 31 | **6.2** | **Calculus part,** <u>p.318:</u>  **13**, 14, 15, **16**, 19, **20**, 21 |
| 32 | **6.2** | **Calculus part**, <u>p. 318</u>:  23, 24, 31, **33**, **45, 47** |

May 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>        **REVIEW FOR FINAL EXAM ( attendance not required on 8<sup>th</sup> )**
Week of May 4<sup>th</sup>           **FINAL EXAM (location, date, time to be announced)**