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| Math 30-1 | **UNIT 1: Transformations, Polynomials,**  **Radicals & Rational Functions**  **September 4 – October 15, 2013**  ***Chapters 1, 3, 2 & 9 Tentative Timeline*** |  |
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| **Date** | **Topic** | | **Assignment**  **“Should be able to do”** | | **Assignment**  **“Extension”** |
| Wed. Sept. 4 | Course Expectations | |  | |  |
| Textbooks | |  | |  |
| Gr. 11 Review | | Worksheet | |  |
| Thurs. Sept. 5 | 1.1 Horizontal & Vertical Translations | | p.12 #1acd, 2, 3ac, 4bd, 5, 6, 8, 10 – 12,  18, C1 | | p. 15 #17, 19, C2 |
| Fri. Sept. 6 | 1.2 Reflections & Stretches Part 1 | | p.28 #1, 3, 4, 5cd, 7bd | |  |
| 1.2 Part 2 Investigation | | Worksheet: DUE MONDAY | |  |
| Mon. Sept. 9 | 1.2 Reflections & Stretches Part 2 | | p.28 #2, 5ab, 6, 7ac, 8 – 10, 12 – 16,  C2, C3, C4 | | p. 31 # C1 & C5 |
| Tues. Sept. 10 | 1.3 MATH LAB Investigation | | Worksheet | |  |
| 1.3 Combining Transformations Part 1 | | p.38 # 2, 3, 5, 6, 7acef, 9abdf, 11  All graphs sketched ACCURATELY on grid paper. | |  |
| **Wed. Sept. 11** | **1.1 & 1.2 QUIZ** | |  | |  |
| 1.3 Combining Transformations Part 2 | | p.38 # 1, 4, 8, 10, 12 – 14, 17  All graphs sketched ACCURATELY on grid paper. | | p.41 #15, 16, 18,  C3, C4 |
| Thurs. Sept. 12 | 1.4 Inverse of a Relation | | p.51 #1b, 2b, 3a, 4bd, 5bdf, 6, 7b, 8ac,  9bde, 10a, 11, 12cf, 13be, 14bd,  15bd, 16, 18, C1 – C3  All graphs sketched ACCURATELY on grid paper. | | p.55 #19, 21 |
| *Optional:* Ch.1 Review & Summary | | p.56 | |  |
| **Fri. Sept. 13** | **1.3 & 1.4 QUIZ** | |  | |  |
| 3.1 MATH LAB Investigation | | p.106 #1 – 8: DUE MONDAY | |  |
| Mon. Sept. 16 | 3.1 Characteristics of Polynomial  Functions | | p.114 #1aceg, 2bcef, 3bc, 4acef,  5-7, 10, C2 a | | p.116 #11, 12 |
| Tues. Sept. 17 | 3.2 The Remainder Theorem Part 1 | | p.124 #2, 3bdf, 4acef, (5 – 7)bdf | |  |
| Wed. Sept. 18 | 3.2 The Remainder Theorem Part 2 | | p.124 #8 – 15 , C3 | | p.125 #16, 17, C2 |
| 3.3 The Factor Theorem Part 1 | | p.133 #1bd, 2bce, 3adf, 4ace, C1, C2 | |  |
| Thurs. Sept. 19 | 3.3 The Factor Theorem Part 2 | | p.134 #5bde, 6acde, 7bc, 9, 11, 12, 15, C3 | | p.135 #16 |
| Fri. Sept. 20 | **NO SCHOOL** *Professional Development Day* | |  | |  |
| Mon. Sept. 23 | 3.4 Equations & Graphs of  Polynomial Functions | | p.147 #(1 – 3)ac, 4 – 6, (7 – 8)bc, 9ace,  10ac, 11, 12, 14, 16, 17, C1 – C3 | | p.150 #15, 20, 22 |
| *Optional:* Ch.3 Review & Summary | | p.153 | |  |
| **Tues. Sept. 24** | **Ch. 3 QUIZ** | |  | |  |
| Wed. Sept. 25 | 2.1 Radical Functions &  Transformations Part 1 | | p.72 #1bd, 2 – 4, 5acf, 6,  (Sketch accurate graphs on grid paper.) | |  |
| Thurs. Sept. 26 | 2.1 Radical Functions &  Transformations Part 2 | | p.73 #8, 9, 10, 11(ac), 12, 16, C1 | | p.75 #13, 19, 20 |
| Fri. Sept. 27 | 2.2 Square Root of a Function | | p.86 #1, 2bc, 3, 4, 5ac, 6ab, 7ac, 8ac,  10, 11, 12, 16ab, C2 | | p.89 #14, 17 |
| Mon. Sept. 30 | 2.3 Solving Radical Equations  Graphically | | p.96 #1, 2, 3ad, 4, 5ac, 6ad, 7ad, 8ac,  11, 15 | | p.97 #13, 16 |
| *Optional:* Ch.2 Review & Summary | | p.99 | |  |
| **Tues. Oct. 1** | **2.1 – 2.3 QUIZ** | |  | |  |
| 9.1 MATH LAB Investigation | | p.431 #1 – 9: DUE WEDNESDAY | |  |
| **Date** | **Topic** | **Assignment**  **“Should be able to do”** | | **Assignment**  **“Extension”** | |
| Wed. Oct. 2 | 9.1 Exploring Rational Functions  Using Transformations Part 1 | p.442 #1, 2ad, 3ac, 4ac, 6, 12 | |  | |
| Thurs. Oct. 3 | 9.1 Exploring Rational Functions  Using Transformations Part 2 | p.442 #5, 7ac, 8, 9, 10, 14, 15, 16 | | p.443 #18, 19, C3 | |
| Fri. Oct. 4 | 9.2 Analyzing Rational Functions | p.451 #1, 2ac, 3, 4ad, 5 – 10, 13 | | p.453 #12, 20, C1,  C2 | |
| Mon. Oct. 7 | 9.3 Connecting Graphs &  Rational Equations Part 1 | p.465 #1, 2, 3cd, 4ac, 5ac, 6ac | |  | |
| Tues. Oct. 8 | 9.3 Connecting Graphs &  Rational Equations Part 2 | p.466 #7, 8, 9, 11, 12, 16 | | p.467 #13, 17, C1 | |
| Wed. Oct. 9 | Ch. 9 Application Problems |  | |  | |
|  | *Optional:* Ch.9 Review & Summary | p.468 | |  | |
| **Thurs. Oct. 10** | **Ch. 9 QUIZ** |  | |  | |
| Fri. Oct. 11 | Cumulative Exam #1 Review | p.58, p.155, p. 102, p. 470 | |  | |
| Mon. Oct. 14 | **NO SCHOOL**  *Happy Thanksgiving!* |  | |  | |
| **Tues. Oct. 15** | Cumulative Exam #1 | **Includes Chapters 1-3, & 9** | |  | |