Unit 3 Modeling and Analyzing Quadratic Functions Part 2

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| Date | Day | Topic of the day | Assignment |
| 1/8 | 1 | Solve by Factoring: The Zero Product Rule  Notes: “Zero Product Property Notes” | WKT Page 34 # 1-9, 19-30 |
| 1/9 | 2 | Solve  Notes/CW: Kuta Worksheet- 10 questions | Page 507 # 5-10, 20-29 |
| 1/10 | 3 | Solve = 0 | Page 513 # 5-8, 23-28 |
| 1/11 | 4 | Solve by Factoring Mixed Review | Study Guide |
| **1/12** | **5** | **Quiz #3 of Unit 3** |  |
| **1/15** |  | **NO SCHOOL!** |  |
| 1/16 | 6 | Solve by Taking the Square Root  Notes: #13-26 | Kuta worksheet # 1-28 |
| 1/17 | 7 | Solve by Completing the Square | Page 577 # 10-21 |
| 1/18 | 8 | Solve by Completing the Square  CW: Kuta #1-12 | Page 577 # 22-30 |
| 1/19 | 9 | Solve by Using the Quadratic Formula  (Use exact value *and* rounding to nearest 10th) | Page 587 # 1-10 |
| 1/22 | 10 | Solve by Using the Quadratic Formula | Kuta worksheet # 1 - 18 |
| 1/23 | 11 | Review # 1 | Review # 1 |
| 1/24 | 12 | **TEST 2 of Unit 3** |  |
| 1/25 |  | **FastBridge Testing** | Graph basic quadratics with a table. |
| 1/26 | 13 | Graphing Quadratic Functions: Translations Up/Down and Right/Left (Task 1-4) | Worksheet Page 17 |
| 1/29 | 14 | Graphing Quadratic Functions: Vertical Stretch or Vertical Shrink (Task 6-7) | Page 569  # 1, 2, 4, 10, 11, 13-20 |
| 1/30 | 15 | Graphing Quadratic Functions: Reflections  (Task 4-5, 8-13) | Worksheet Page 19 |
| 1/31 | 16 | All Transformations | Review |
| **2/1** | **17** | **Quiz 4**  After quiz: Introduction of Vertex Form and ‘Vertex’ |  |
| 2/2 | 18 | Identify Characteristics given Vertex Form and Graph:  Vertex, Axis of Symmetry, Maximum/Minimum, Domain and Range | Worksheet |
| 2/5 | 19 | Identify Characteristics given Graph:  End Behavior, x and y-intercepts, and symmetry (even, odd, or neither) | p.549-550  #5-8, 28-33 |
| 2/6 | 20 | Identify Characteristics given Graph:  Intervals of Increasing/Decreasing and Rate of Change | p.549-550  #5-8, 28-33 |
| 2/7 | 21 | Identify Characteristics given Standard Form:  Vertex, Axis of Symmetry, X and Y-intercepts, Rate of Change | Worksheet |
| 2/8 | 22 | Practice with Standard Form | Worksheet |
| 2/9 | 23 | Review for Quiz |  |
| **2/12** | **24** | **Quiz on Characteristics** |  |
| 2/13 | 25 | Word Problems (applications with standard form) |  |
| 2/14 | 26 | Review for Test |  |
| 2/15 | 27 | Review for Test |  |
| **2/16** | **28** | **Unit 3 Test 3** |  |
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