

Mathematics 30-2: Unit 7 Review

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| **Review the outcomes assessed on this quiz.** **I can...** | **Circle the questions you got correct on this Quiz.** | **Check the rating you think reflects your understanding of each outcome.** |
| **Unit 7 Outcomes** | describe the characteristics of a logarithmic function by analyzing its graph | 1 |  |  |
| describe the characteristics of a logarithmic function by analyzing its equation | 2 |  |  |
| match the equation of a logarithmic function to its corresponding graph | 3, 17 |  |  |
| express a logarithmic equation as an exponential equation and *vice versa* | 4 |  |  |
| determine the approximate value of a logarithmic expression, such as log28, with and without technology | 5, 6 |  |  |
| solve problems that involve logarithmic scales, such as the Richter scale and the pH scale | 10, 18 |  |  |
| determine an equivalent expression for a logarithmic expression by applying the laws of logarithms | 7, 14 |  |  |
| determine the solution of an exponential equation in which the bases are not powers of one another | 11, 19 |  |  |
| graph data and determine the logarithmic function that best fits the data | 8, 16 |  |  |
| interpret the graph of a logarithmic function that models a situation, and explain your reasoning | 9, 12 |  |  |
| use technology to solve a problem that involves data best modelled by a logarithmic function | 13, 15 |  |  |
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| **Review Outcomes** | add or subtract two rational expressions that have different denominators and write the answers in simplified form (Lesson 4C) | 20 |  |  |
| describe characteristics of a polynomial function by analyzing its equation (Lesson 5A) | 21 |  |  |
| graph data and determine the polynomial function that best fits the data (Lesson 5B) | 22 |  |  |
| determine the solution of an exponential equation in which the bases are not powers of one another (Lesson 6B) | 21 |  |  |
| use technology to solve a problem that involves data best modelled by a exponential function (Lesson 6C) | 22 |  |  |
| add or subtract two rational expressions that have different denominators and write the answer in simplified form (Lesson 4C) | 23 |  |  |
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| **Record any questions you have about Unit 7. Then, contact your teacher.** |