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| Unit 3: Equivalent Expressions and Inverse Functions | | | | |
| **Day 1** | **Graph and Table of Values of an Inverse Function** | | | |
| Learning Goals | I can find the inverse of a function given the table of values. | 1 | 2 | 3 |
| I can find the inverse of a function given the graph. | 1 | 2 | 3 |
| I can find the domain and range of the inverse function. | 1 | 2 | 3 |
| **Day 2** | **Equation of an Inverse** | | | |
| Learning Goals | I can find the inverse equation of a function. | 1 | 2 | 3 |
| I can find the domain and range of the inverse from the original function. | 1 | 2 | 3 |
| **Day 3** | **Equivalent Expressions** | | | |
| Learning Goals | I can prove two expressions are not equivalent. | 1 | 2 | 3 |
| I can prove two expressions are equivalent. | 1 | 2 | 3 |
| **Day 4** | **Adding/Subtracting/Multiplying and Dividing Fractions & Multiplying Polynomials** | | | |
| Learning Goals | I can add/subtract fractions without a calculator. | 1 | 2 | 3 |
| I can multiply fractions without a calculator. | 1 | 2 | 3 |
| I can divide fractions without a calculator. | 1 | 2 | 3 |
| I can multiply polynomials of any size together. | 1 | 2 | 3 |
| **Day 5** | **Rational Functions** | | | |
| Learning Goals | I can simplify Rational Functions. | 1 | 2 | 3 |
| I can state restrictions on Rational Functions. | 1 | 2 | 3 |
| I can state the holes or asymptotes of a Rational Function. | 1 | 2 | 3 |
| **Day 6** | **Multiplying and Dividing Rational Functions** | | | |
| Learning Goals | I can multiply Rational Functions. | 1 | 2 | 3 |
| I can divide Rational Functions. | 1 | 2 | 3 |
| I can state restrictions when multiplying or dividing Rational Functions. | 1 | 2 | 3 |
| **Day 7** | **Adding and Subtracting Rational Functions** | | | |
| Learning Goals | I can add Rational Functions. | 1 | 2 | 3 |
| I can subtract Rational Functions. | 1 | 2 | 3 |
| I can state restrictions when adding or subtracting Rational Functions. | 1 | 2 | 3 |
| **Day 8** | **Solving with Rational Functions** | | | |
| Learning Goals | I can solve rational equations. | 1 | 2 | 3 |
| I can solve rational inequalities. | 1 | 2 | 3 |
| **Day 9** | **Problem Solving with Rational Functions** | | | |
| Learning Goals | I can write the equations/inequalities from a word problem. | 1 | 2 | 3 |
| I can interpret the solutions. | 1 | 2 | 3 |
| **Day 10** | **Review** | | | |
| **Day 11** | **Test** | | | |

**Unit 3 – Inverse and Equivalent Functions**

Day 1 – Investigation 1.5 Nelson Pages 41. Answer A to O

Day 2 – Nelson Page 46 #s 2ace, 3, 6bdf, 9, 10 & 17

Day 3 – Nelson Page 95 #s 4def, 6ace, 7 & 11 – 13

Day 4 – Fractions Handout

Nelson Page 88 #s 4ace, 5ace, 6ef, 8af, 11 & 12

Day 5 – Reciprocal Handout

Nelson Page 112 #s 1, 2bc, 5, 6 & 12

Day 6 – Nelson Page 121 #s 1, 5ac, 6ac, 7ad (Multiplying)

Nelson Page 121 #s 2, 4bd, 5bd, 7bc (Dividing)

Day 7 – Nelson Page 128 #s 1, 2, 3, 6acf, 7ace & 10ad

Day 8 – Handout 3.80 #s 11 & 16

Day 9 – Nelson Page 132 #s 1, 3 – 5, 6aceg, 7ace, 9ac,

10ace, 11, 12bd, 13bd, 14bd, 15df & 16

Day 10 – TEST