**Honors Math 3**

**Unit 4 Review** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
| 1. Simplify | 1. Simplify |
| Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Simplify   Restrictions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. If y varies jointly as x and z and y = 16 when x = 4 and z =2, find y when x = 10 and z = 8. | 1. Simplify |
| 1. Does the table represent direct, inverse, or neither type of variation? Write the equation that fits the model.  |  |  |  |  |  | | --- | --- | --- | --- | --- | | X | 2 | 3 | 4 | 5 | | y | 4 | 6 | 8 | 10 | | 1. Solve the inequality   Critical values: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Solve |  |
| 1. Graph the expression and fill in the following:     Horizontal asymptotes:  Vertical asymptotes:  Holes:  Domain:  Range: | |