Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graphing Exponential Functions**

Today’s Question: How do I solve an exponential equation algebraically? MCC9-12.A.CED.1

**Graphing Exponential Functions**



1. 

|  |  |
| --- | --- |
| **x** | **y** |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |



1. 

|  |  |
| --- | --- |
| **x** | **y** |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

1. 

|  |  |
| --- | --- |
| **x** | **y** |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

1.  When does 2x = 8? Hint: Look in the table on problem #1 and figure out what’s next.

**Solving Exponential Equations & Inequalities NOTES**

**Solving Exponential Equations**

**Step 1 –** Isolate the base

**Step 2 –** Write both sides of the equation as exponential expressions with LIKE bases

**Step 3 –** Set the EXPONENTS equal to each other (or use the same inequality)

**Step 4 –** Solve for the unknown

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 