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. 

|  |  |  |
| --- | --- | --- |
| **x** |  | **y = 8** |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |

**Solving Exponential Equations**

**Solving Exponential Equations**

* There are **two** approaches we can take for solving exponential equations:
  + use a logarithm (You will do this is in the 11th grade.)
  + use the Equality Property for Exponential Functions:
    - If the bases are the same, then set the exponents equal to each other & solve!

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