**Algebra 2**, Unit 8 **#22**

**Day 22: Review**



**Proficient and Highly Proficient: Simplify. Your answer should contain only positive whole number exponents, and no zero exponents.**



 19) $9^{\frac{1}{2}}$ 20) $16^{\frac{3}{4}}$ 21) $(x^{6})^{\frac{1}{2}}$



**Exponential Functions**

**Close to Proficient:** Make a table and graph the exponential equation $y=4⋅2^{x}$

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Table

|  |  |
| --- | --- |
| **x** | $y=4⋅2^{x}$ |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

b. Is this exponential growth or decay? Explain | c. Graph $y=4⋅2^{x}$. Label your axes. |

**Proficient/ Highly Proficient:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Write an equation of this graph.**y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Write an equation for this table.**

|  |  |
| --- | --- |
| **x** | **y** |
| 0 | 64 |
| 1 | 48 |
| 2 | 36 |
| 3 | 27 |

y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Check that your equation works: |