

Advanced Algebra

To do now:

- ✓ **Projects to be turned in.**
- ✓ **Complete Warm Up**
- ✓ **Homework on your desk.**

Warm Up:

Which is greater?

64^6 or 16^{10} ? Show proof.

Agenda:

- ✓ **Finish Absolute value graphing.**



Homework:

Enjoy the last weekend before Christmas vacation...

Oct 26-11:27 AM

Warm Up:

Which is greater?

64^6 or 16^{10} ? Show proof.

$$\begin{array}{ccc} \downarrow & & \downarrow \\ (4^3)^6 & & (4^2)^{10} \\ 4^{18} & < & 4^{20} \end{array}$$

Dec 17-12:26 PM

Equation Challenges

1. Write two equations, one linear and the other an absolute value equation, that share a y-intercept of 6. The absolute value equation has a vertex of $(-4, -2)$ and $a = -m$.
2. Find the linear equation that is parallel to the left half of the graph of $y = -3|x - 2| - 1$ and intersects at the point of symmetry to the y-intercept.
3. Find the linear equation that is parallel to the x-axis and intersects the graph of $y = \frac{1}{4}|x - 6| - 3$ at only ONE point.
4. Create equations that form the capital letter "K" with a common point of intersection of $(3, 4)$ for all three lines and the diagonal lines are perpendicular.

Dec 17-12:06 PM