Algebra 2 Honors- Week 11 Homework

**Monday-** Modeling the Speed of a Tsunami Activity- Finish whatever you did not finish during class.

Things you may need to know:

Alaska: 57.7931 degrees N, 152.3942 degrees W

Oregon: 44.6044 degrees N, 124.0547 degrees W

Hawaii: 19.7056 degrees N, 155.0858 degrees W

1 degree = 110 kilometers (N to S)

1 degree = 70 kilometers (E to W)

1 kilometer = 1000 meters

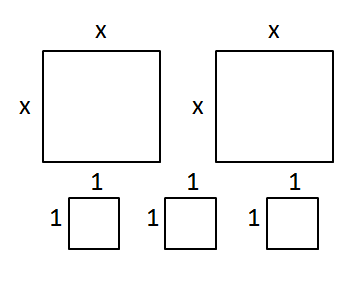
**a c**

**b**

**Tuesday-**

**Transformation of Quadratic Functions Assignment**

1. Write a function to represent the total area.

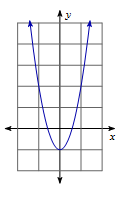
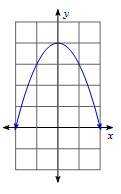
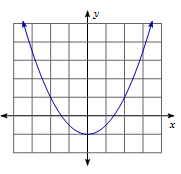


Draw a picture of the squares and sketch a graph for each function.

2. 3. 4. +3

Write a function to represent each graph.

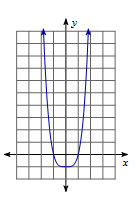
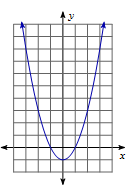
5. 6. 7.



8. Write the equation of a quadratic function that translates up 12 and stretches by 5.

9. Write the equation of a quadratic function that translates down 3 and shrinks by 5.

10. Describe the similarities and differences between:



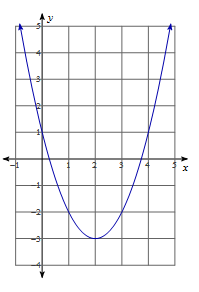
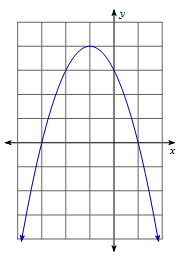
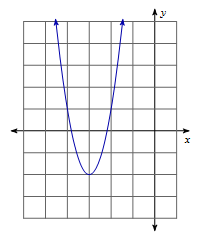
**Wednesday-**

**Transformation of Quadratic Functions Day 2 Assignment**

Draw a picture of the squares and sketch a graph for each function.

1. 2. 3. 4.

Write a function to represent each graph.

5. 6. 7.

8. Write the equation of a quadratic function that translates down 7 and left 8.

9. Write the equation of a quadratic function that translates up 11, right 9, and stretches by 4.

10. What transformation will occur with ?

**Thursday-**

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**Friday-**

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