Algebra 2 Honors- Week 8 Homework

**Monday-**

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**Tuesday-**

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**Wednesday-** Quiz! No homework, catch up from previous week if needed!

**Thursday-**

**Factoring Completely Assignment**

Factor completely.

1. 2. 3. 4.

5 6. 7. 8.

9. 10.

**Friday-**

**Modeling Equations and Functions with Factoring Assignment**

Solve each problem.

1. 2. 3. 4.

5 6. 7. 8.

9. The width of a rectangle is 10 less than its length.

a) Write a function A(x) that represents the area give length x.

b) Find the area of the rectangle if it has a length of 15 inches.

c) Find the length and width if the area is 24 inches2.

10. A ball is shot straight up from a height of 112 feet and at a rate of 96 feet per second.

a) Write a function H(t) that represents the height at t seconds.

b) Find the height of the ball at 2 seconds.

c) When will the ball hit the ground?