**Test REVIEW: Factoring Algebra 1 Kitt**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_**

**I. Finding the Greatest Common Factor**

 1. Determine the prime factorization of the following numbers:

1.  b.  c. 

 2. Find the greatest common factor between the following pair of numbers or expressions.

1. 20 and 120. b. 12 and 40. c. $6a^{2}b^{3}$ and $12a^{3}b^{5}$.

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1. **Factor using Backwards Distribution**

 3.  4.  5. 

 6.  7.  8. 

**III. Factoring Trinomials**

 9.  10.  11. 

 12.  13.  14. 

**IV. Factoring Differences of Squares**

 15.  16.  17. 

**V. Solve each polynomial by factoring.**

18. a. $x^{2}+5x-36=0$ b. $x^{2}-7x=0$ c. $x^{2}-81=0$