**REVIEW – SBM#3 – Advanced Algebra**

1. **Solve**
2. **Simplify**
3. **Find the 3rd term in the expansion of**
4. **Divide**
5. **Factor completely**
6. **Factor completely**
7. **Factor completely**
8. **Solve**
9. **List the “a”, “b”, and “c” for the equation**
10. **Use the Quadratic Formula to get the value(s) for x in the equation**
11. **Given the following equation in factored form, identify the zeros and the multiplicity of each root:**
12. **List the leading coefficient, the degree of the function, and the end behavior for the function**

**.**

1. **Simplify**
2. **Simplify**
3. **Simplify the rational expression**
4. **Solve**
6. **Write an equation that has a zero tangent to the x-axis at but crosses it at .**

**Condense or Expand each log**

5. **Given Find**
6. **Graph, give the domain and range**
7. **Find the inverse for the equation**

**Answers:**

1. **18.**
2. **19.**
3. **20.**
4. **21.**
5. **22.**
6. **23.**
7. **24. Arm with “elbow” at**
8. **Domain: all reals**
9. **Range:**
10. **25.**