Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mr. Schlansky Algebra II

***Finding k in a Polynomial Equation***

1. Consider the polynomial . Find a value of k so that  is a factor of P. Find all the zeros of P.

2. Consider the polynomial . Find a value of k so that  is a factor of P. Find all the zeros of P.

3. Given , and, algebraically determine all the zeros of .

4. Given , , and , algebraically determine all the zeros of .

5. Given , andis a factor, algebraically determine all the zeros of .