Warm Up: Unit 3 Polynomial Functions and Equations Algebra 2 Kitt

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

**3.5 Graph and Evaluate Polynomial Functions**

*1. Write the equation in standard form. Label the zeros and their multiplicity.*

 $x(x+2)(x+2)$

*2. Graph the polynomial function:* $p\left(x\right)=(x+1)(x-1)^{2}$



**3.6 Writing Polynomial Functions with Zeros**

*3. Given the roots, write the polynomial in standard form:* $5, 2,0$

*4. Given the zeros, write the equation in standard form.* $2, -3, 0$