Bronx Community College, CUNY

MTH30 Pre - Calculus

**Quiz 9**
**(Section 2.3)**

Name: _____

**1.** The degree of the polynomial function $f(x)=2x^2(x-3)(x+5)^2$ is _____

   The leading coefficient is _____

**2.** What is the end behavior of the graph of the polynomial function $f(x) = -3x^5+10x-7$ ?

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**3.** Find all the zeros of the function $f(x) = 7(x-3)^2(x+4)^7$.
Give multiplicity for each zero. State whether the graph crosses the x-axis, or touches the x-axis and turns around, at each zero.