SECONDARY MATH 3

**CORE STANDARDS**

A.APR.3

F.IF.7c

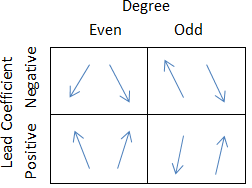
LESSON

**2-3**

OBJECTIVE 1. I can graph polynomials using technology and by hand.

NOTES End Behavior: Refers to the nature of the graph as x approaches positive and negative infinity.

With polynomials, the degree and lead coefficient determine the end behavior.



**Fundamental Theorem of Algebra:**

A polynomial of degree n has exactly n complex zeros (some may be repeated zeros).

EXAMPLES Determine the zero values and end behavior, then graph the function.

1. 2.

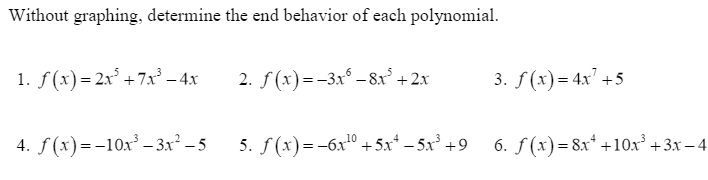
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[](http://www.bing.com/images/search?q=coordinate+plane&view=detail&id=2F1ED028558F50A28B1B56C404A235D27AE48820&first=0&FORM=IDFRIR)3. 4.

5. Determine the number of zeros each of the polynomials has.

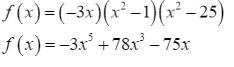
* 1. b.

PRACTICE **2-3** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 [SHOW YOUR WORK]

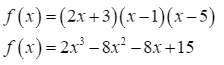
Then determine the number of zeros for each.

Graph the polynomial and identify zeros and end behavior.



1. 8.

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1. 10.

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