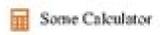
KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6 Rates of Change, Complex Zeros, and End Behavior



1. Factual Recall

For the polynomial function

$$p(x) = 5x^{4} - 9x^{5} + 3x^{5} - 9x - 2,$$

Identify the following.

- a) the degree of the polynomial
- 4
- b) the leading coefficient
- 3
- c) the constant term
- -2
- d) a zero of the polynomial function p if (x-2) is a linear factor of p
- 2

EK: 1.4.A.1, 1.5.A.1

2. Carry out a Procedure

For the polynomial function

- $g(x) = (x+3)^{3}(x+1)^{3}(x-4)^{4}$.
- a) find the zeros and their corresponding multiplicities.

Zero	Multiplicity	
-3	These	
-1	Two	
4	Four	

b) At which of these zeros is the graph of the polynomial tangent to the x-axis?

At x = -1 and x = 4 because of the even multiplicity. See page 2. EK: 1.5 A.2 & 1.5 A.5

3. Classify a Mathematical Object

Classify as Even (E), Odd (O), or Neither (N)

	E/O/N	Polynomial Function
I,	8	$p_1(x) = 5x^4 + 3x^2 - 4$
2.	N	$p_1(x) = 5x^4 + 3x^2 + 2x$
3.	0	$p_{y}(x) = 6x^{3} + 2x$
4.	8	A-
5.	0	N

EK: 1.5.B1 & 1.5.B.2

4. Prove, Show, Justify

For each of the polynomial functions, write appropriate limits to describe the end behavior. Give reasons for your answers.

a)
$$f(x) = 5x^4 + 3x^3 - 4$$

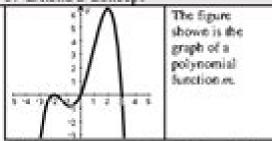
End Behavior Limits	Reason
$\lim_{x\to\infty} p(x) = \infty$	p has an even degree and a positive leading coefficient.

b)
$$h(x) = -6x^3 + 2x - 4$$

End Behavior Limits	Reason
$\lim p(x) = \infty$	p has an odd
$\lim p(x) = -\infty$	degree and a negative leading
	coefficient.

EK: 1.6.A.1 & 1.6.A.1

5. Extend a Concept



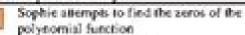
 a) Write an expression for m in factored forms using a as the leading coefficient.

$$m(x) = \alpha(x+2)^3(x-0)(x-3)$$

b) Which value of a in the list below displays a polynomial that best matches the given graph of m?

Possible a-values	0.3	0.2	-0.2	-0.3		
a = -0.2 EK: 14.A.4 & 15.A.2						

6. Critique a Fallacy



$$q(x) = x^2 - 2x^2 - 3x - 2$$
.

Sophie graphs the function on her calculator and states that the function has exactly two complex zeros. Explain what is wrong with Sophie's statement. Write a correct statement about the complex zeros.

Since the degree of the polynomial function is 4, the function has exactly 4 complex zeros.

The graph of function q shows two x-intercepts which indicates that q has two real zeros and two non-real zeros. The real zeros are x = -1and x = 2.

See page 2.

EK: 1.5.A.2 & 1.5.A.4

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