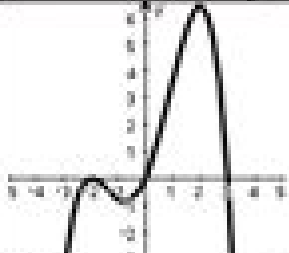


KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6
Rates of Change, Complex Zeros, and End Behavior

 **Some Calculator**

1. Factual Recall For the polynomial function $p(x) = 5x^4 - 9x^3 + 3x^2 - 9x - 2$, Identify the following. a) the degree of the polynomial 4 b) the leading coefficient 5 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 $g(x) = (x + 3)^2(x + 1)^2(x - 4)^2$, a) find the zeros and their corresponding multiplicities. <table><tr><th>Zero</th><th>Multiplicity</th></tr><tr><td>-3</td><td>Three</td></tr><tr><td>-1</td><td>Two</td></tr><tr><td>4</td><td>Four</td></tr></table> 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.3	Zero	Multiplicity	-3	Three	-1	Two	4	Four	3. Classify a Mathematical Object Classify as Even (E), Odd (O), or Neither (N) <table><tr><th></th><th>E/O/N</th><th>Polynomial Function</th></tr><tr><td>1.</td><td>E</td><td>$p_1(x) = 5x^4 + 3x^2 - 4$</td></tr><tr><td>2.</td><td>N</td><td>$p_2(x) = 5x^4 + 3x^2 + 2x$</td></tr><tr><td>3.</td><td>O</td><td>$p_3(x) = 6x^3 + 2x$</td></tr><tr><td>4.</td><td>E</td><td></td></tr><tr><td>5.</td><td>O</td><td></td></tr></table> EK: 1.5.B.1 & 1.5.B.2		E/O/N	Polynomial Function	1.	E	$p_1(x) = 5x^4 + 3x^2 - 4$	2.	N	$p_2(x) = 5x^4 + 3x^2 + 2x$	3.	O	$p_3(x) = 6x^3 + 2x$	4.	E		5.	O	
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4. Prove, Show, Justify For each of the polynomial functions, write appropriate limits to describe the end behavior. Give reasons for your answers. a) $f(x) = 5x^4 + 3x^2 - 4$ <table><tr><th>End Behavior Limits</th><th>Reason</th></tr><tr><td>$\lim_{x \rightarrow \infty} p(x) = \infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$</td><td>$p$ has an even degree and a positive leading coefficient.</td></tr></table> b) $h(x) = -6x^3 + 2x - 4$ <table><tr><th>End Behavior Limits</th><th>Reason</th></tr><tr><td>$\lim_{x \rightarrow \infty} p(x) = -\infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$</td><td>$p$ has an odd degree and a negative leading coefficient.</td></tr></table> EK: 1.6.A.1 & 1.6.A.1	End Behavior Limits	Reason	$\lim_{x \rightarrow \infty} p(x) = \infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$	p has an even degree and a positive leading coefficient.	End Behavior Limits	Reason	$\lim_{x \rightarrow \infty} p(x) = -\infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$	p has an odd degree and a negative leading coefficient.	5. Extend a Concept  The figure shows is the graph of a polynomial function m . a) Write an expression for m in factored form using a as the leading coefficient. $m(x) = a(x + 2)^2(x - 0)(x - 3)$  b) Which value of a in the list below displays a polynomial that best matches the given graph of m ? <table><tr><th>Possible a-values</th><td>0.3</td><td>0.2</td><td>-0.2</td><td>-0.3</td></tr><tr><td>$a = -0.2$</td><td></td><td></td><td></td><td></td></tr></table> EK: 1.4.A.4 & 1.5.A.2	Possible a -values	0.3	0.2	-0.2	-0.3	$a = -0.2$					6. Critique a Fallacy  Sophie attempts to find the zeros of the polynomial function $q(x) = x^4 - 2x^2 - 3x - 2$. 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 $x = -1$ and $x = 2$. See page 2. EK: 1.5.A.2 & 1.5.A.4								
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G Thomas



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