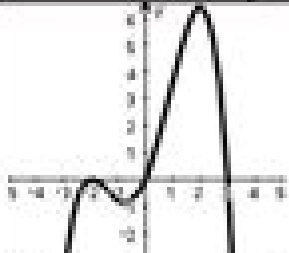




KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6
Rates of Change, Complex Zeros, and End Behavior

 **Some Calculator**

<p>1. Factual Recall</p> <p>For the polynomial function</p> $p(x) = 5x^4 - 9x^3 + 3x^2 - 9x - 2,$ <p>Identify the following.</p> <p>a) the degree of the polynomial</p> <p>4</p> <p>b) the leading coefficient</p> <p>5</p> <p>c) the constant term</p> <p>-2</p> <p>d) a zero of the polynomial function p if $(x - 2)$ is a linear factor of p</p> <p>2</p> <p>EK: 1.4.A.1, 1.5.A.1</p>	<p>2. Carry out a Procedure</p> <p>For the polynomial function</p> $g(x) = (x + 3)^2(x + 1)^2(x - 4)^2,$ <p>a) find the zeros and their corresponding multiplicities.</p> <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> <p>b) At which of these zeros is the graph of the polynomial tangent to the x-axis?</p> <p>At $x = -1$ and $x = 4$ because of the even multiplicity. See page 2.</p> <p>EK: 1.5.A.2 & 1.5.A.3</p>	Zero	Multiplicity	-3	Three	-1	Two	4	Four	<p>3. Classify a Mathematical Object</p> <p>Classify as Even (E), Odd (O), or Neither (N)</p> <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> <p>EK: 1.5.B.1 & 1.5.B.2</p>		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	
Zero	Multiplicity																											
-3	Three																											
-1	Two																											
4	Four																											
	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																											
<p>4. Prove, Show, Justify</p> <p>For each of the polynomial functions, write appropriate limits to describe the end behavior. Give reasons for your answers.</p> <p>a) $f(x) = 5x^4 + 3x^2 - 4$</p> <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> <p>b) $h(x) = -6x^3 + 2x - 4$</p> <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> <p>EK: 1.6.A.1 & 1.6.A.1</p>	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.	<p>5. Extend a Concept</p> <div></div> <p>The figure shows is the graph of a polynomial function m.</p> <p>a) Write an expression for m in factored form using a as the leading coefficient.</p> $m(x) = a(x + 2)^2(x - 0)(x - 3)$ <p> b) Which value of a in the list below displays a polynomial that best matches the given graph of m?</p> <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> <p>EK: 1.4.A.4 & 1.5.A.2</p>	Possible a -values	0.3	0.2	-0.2	-0.3	$a = -0.2$					<p>6. Critique a Fallacy</p> <p> Sophie attempts to find the zeros of the polynomial function</p> $q(x) = x^4 - 2x^2 - 3x - 2.$ <p>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.</p> <p>Since the degree of the polynomial function is 4, the function has exactly 4 complex zeros.</p> <p>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</p>								
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.																											
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Possible a -values	0.3	0.2	-0.2	-0.3																								
$a = -0.2$																												

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**Judith A. Beecher, Judith A.
Penna, Marvin L. Bittinger**



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Precalculus J. S. Ratti, Marcus McWaters, Leslaw Skrzypek, Jessica Bernards, Wendy Fresh, 2023-03-26 For courses in Precalculus Solid preparation for calculus with an engaging friendly approach Precalculus A Unit Circle Approach draws from the authors extensive classroom experience to build conceptual understanding and skills so that students are ready for calculus In the 4th Edition new resources help students reach their full potential including author created instructional videos note taking guides and study skills resources plus built in support for corequisite courses Nationally recognized instructors Jessica Bernards and Wendy Fresh join the author team in this revision helping students master challenging concepts by making them as accessible as possible Hallmark features of this title Relevant applications motivate the content of each chapter and each section Within sections the opening application appears in a related example and in the exercise set Integrated study aids help make challenging math more accessible For example Procedure in Action shows procedural steps within the context of a worked

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