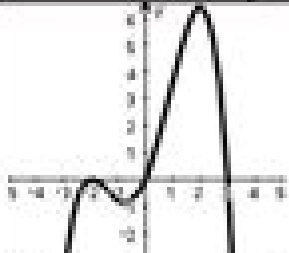




**KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6**  
**Rates of Change, Complex Zeros, and End Behavior**

 **Some Calculator**

<b>1. Factual Recall</b> 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	<b>2. Carry out a Procedure</b> 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.5	Zero	Multiplicity	-3	Three	-1	Two	4	Four	<b>3. Classify a Mathematical Object</b> 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><math>p_1(x) = 5x^4 + 3x^2 - 4</math></td></tr><tr><td>2.</td><td>N</td><td><math>p_2(x) = 5x^4 + 3x^2 + 2x</math></td></tr><tr><td>3.</td><td>O</td><td><math>p_3(x) = 6x^3 + 2x</math></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	
Zero	Multiplicity																											
-3	Three																											
-1	Two																											
4	Four																											
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1.	E	$p_1(x) = 5x^4 + 3x^2 - 4$																										
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3.	O	$p_3(x) = 6x^3 + 2x$																										
4.	E																											
5.	O																											
<b>4. Prove, Show, Justify</b> 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><math>\lim_{x \rightarrow \infty} p(x) = \infty</math> <math>\lim_{x \rightarrow -\infty} p(x) = \infty</math></td><td><math>p</math> 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><math>\lim_{x \rightarrow \infty} p(x) = -\infty</math> <math>\lim_{x \rightarrow -\infty} p(x) = \infty</math></td><td><math>p</math> 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.	<b>5. Extend a Concept</b> <div></div> <div>The figure shows is the graph of a polynomial function <math>m</math>.</div> 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 <math>a</math>-values</th><td>0.3</td><td>0.2</td><td>-0.2</td><td>-0.3</td></tr></table> $a = -0.2$ EK: 1.4.A.4 & 1.5.A.2	Possible $a$ -values	0.3	0.2	-0.2	-0.3	<b>6. Critique a Fallacy</b>  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													
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																								

# Odysseyware Key Precalculus

**Huangqi Zhang**



## **Odysseyware Key Precalculus:**

## Unveiling the Magic of Words: A Overview of "**Odysseyware Key Precalculus**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Odysseyware Key Precalculus**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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