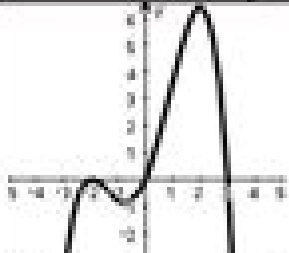




KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6
Rates of Change, Complex Zeros, and End Behavior

 **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 |  |
|---|--|---|---|--|---------------------|--------|--|---|--|--|-----|-------|---------------------|------|------------|----------------------------|----|---|-----------------------------|--|---|----------------------|----|---|---|----|---|---|
| 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 |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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><th>0.3</th><th>0.2</th><th>-0.2</th><th>-0.3</th></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 | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible a -values | 0.3 | 0.2 | -0.2 | -0.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| $a = -0.2$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Odysseyware Key Precalculus

Cynthia Y. Young



Odysseyware Key Precalculus:

Reviewing **Odysseyware Key Precalculus**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Odysseyware Key Precalculus**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://crm.avenza.com/files/publication/HomePages/ple%20plato%20answers%20for%20physics.pdf>

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