Skills and Vocabulary







The polynomial the following **zeros** x = 3; multiplicity 2 x = -2

The polynomial also has a *positive y-intercept*



$$x = \sqrt{10}$$

The polynomial also has a *negative leading coefficient.*

 $y = x^4 - 6x^3 - 7x^2$ The **zeros** are: The *x-intercepts* are: The *y-intercept* of the polynomial is: _____ The end behavior of the polynomial is if $x \to \infty$ then $y \to ___$ if $x \to -\infty$ then $y \to _$ $y = 4x^3 - 17x^2 - 15x$ The *zeros* are: The *x-intercepts* are: The *y-intercept* of the polynomial is: _____ The end behavior of the polynomial is if $x \to \infty$ then $y \to ___$ if $x \to -\infty$ then $y \to ___$

Math III

 $y = 2x^5 - 50x^3$ The *zeros* are: The *x-intercepts* are: The *y-intercept* of the polynomial is: _____ The end behavior of the polynomial is if $x \to \infty$ then $y \to ___$ if $x \to -\infty$ then $y \to _$ $y = -2x^4 - 3x^3 + 4x^2$ The *zeros* are: The *x-intercepts* are: The *y-intercept* of the polynomial is: _____ The end behavior of the polynomial is if $x \to \infty$ then $y \to ___$ if $x \to -\infty$ then $y \to _$



