Vocabulary Toolkit		
	Definition / Additional Information	

Term Definition / Additional Information			
4.2 T	Asymptote	A line that a curve approaches. A curve will never touch a <i>vertical asymptote</i> . A graph can (and often will) touch and even cross <i>horizontal asymptotes</i> . These are also known as end behavior asymptotes, because horizontal asymptotes indicate general behavior far off to the sides of the graph.	
4.5 T	Even Function	 A function that is: symmetric about the <i>y</i>-axis (reflects over the line x = 0 onto itself) output is the same for both x and -x, or f(-x) = f(x) if the point (a, b) satisfies the function, then so does the point (-a, b) 	
4.5 T	Odd Function	 A function that is: symmetric about the origin (rotates 180° about the origin onto itself OR reflects over both the <i>x</i> & <i>y</i>-axis onto itself) output is the opposite for <i>x</i> and -<i>x</i>, or <i>f</i>(-<i>x</i>) = -<i>f</i>(<i>x</i>) if the point (<i>a</i>, <i>b</i>) satisfies the function, then so does the point (-<i>a</i>, -<i>b</i>) 	
4.4 T	Proper Rational Expression	A rational expression where the degree of the numerator is less than the degree of the denominator.	
4.3 T	Rational Function	Any function, $f(x)$, that can be written in the form $f(x) = \frac{P(x)}{Q(x)}$ where <i>P</i> and <i>Q</i> are polynomials in <i>x</i> , and <i>Q</i> is not the zero polynomial.	
4.3 T	Rational Number	Any number that can be written as a fraction $\frac{a}{b}$ where <i>a</i> and <i>b</i> are integers and $b \neq 0$.	