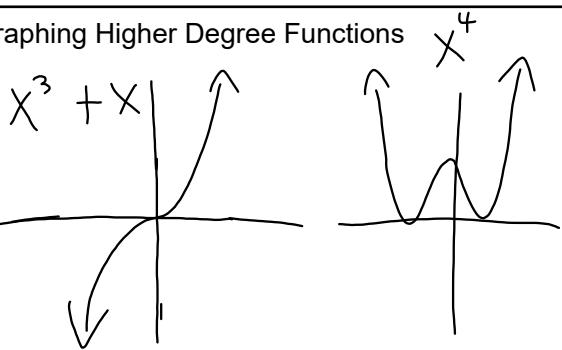


Graphing Higher Degree Functions

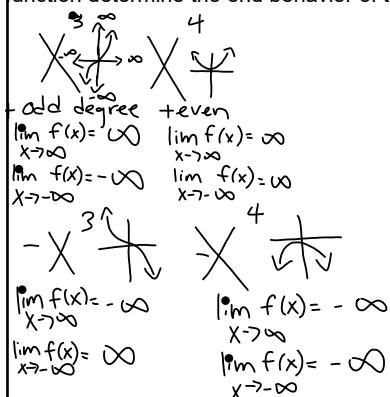


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End Behavior:

The end behavior of a polynomial function is the behavior of the graph of $f(x)$ as x approaches positive infinity or negative infinity. The degree and the leading coefficient of a polynomial function determine the end behavior of the graph.



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Finding Zeros With and Without Calculator

$$f(x) = x^3 - x^2 - 6x$$

$$X(X^2 - X - 6)$$

$$X=0 \quad X(X-3)(X+2)$$

$$X-3=0 \quad X=3$$

$$X+2=0 \quad X=-2$$

aoc

-3	-1	b
-6	2	

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Write a function using given zeros.

$$x=3, 2, 5$$

$$(x-3)(x-2)(x-5)$$

$$x=0, 1, 7$$

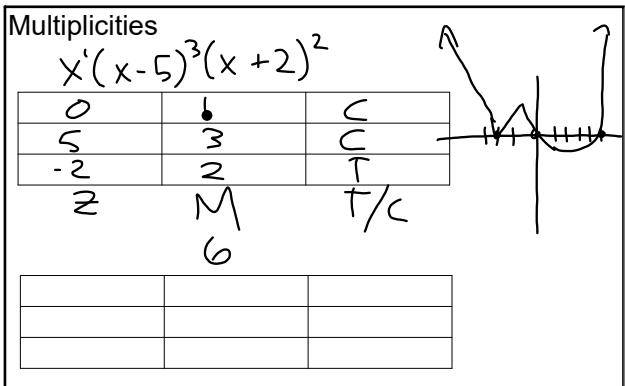
$$x^2 - 2x - 3x + 6$$

$$(x^2 - 5x + 6)(x - 5)$$

X	x^3	$-5x^2$
x^2	X	$25x$
-5x	$-5x^2$	$25x^3$
b	$6x$	-30

$$x^3 - 10x^2 + 31x - 30$$

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Homework

pg. 209-211 Ex 25-28, 29-32, 33-38, 39-42, 53,
54, 64

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