Chapter 5 Section 2

MA1032 Data, Functions & Graphs

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October 24, 2006

A Table

x	-3	-2	-1	0	1	2	3	4
$f(x)$	2	4	6	8	10	12	14	16
$f(-x)$								
$-f(x)$								

A Formula

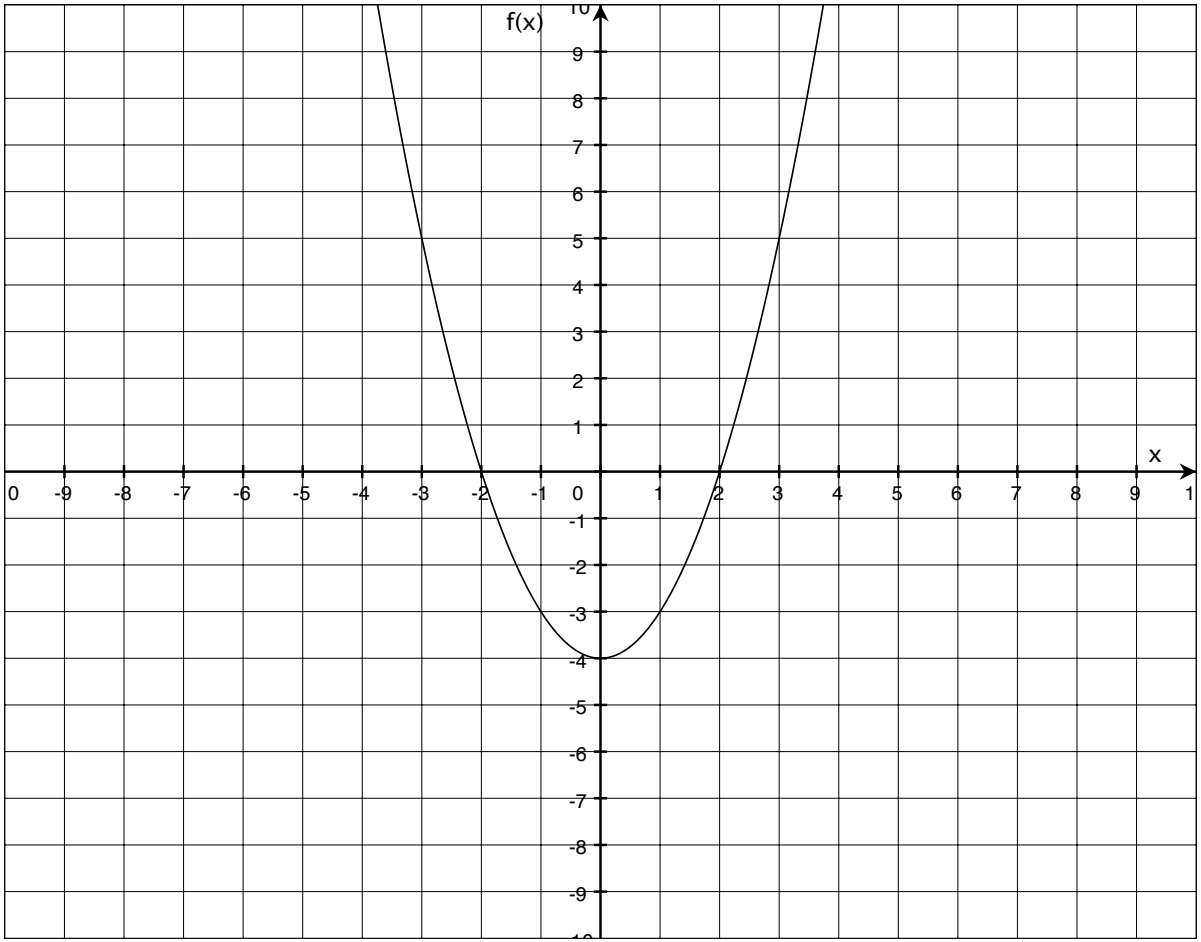
$$f(x) = \sqrt{x+3}$$

$$g(x) = f(-x)$$

$$h(x) = -f(x)$$

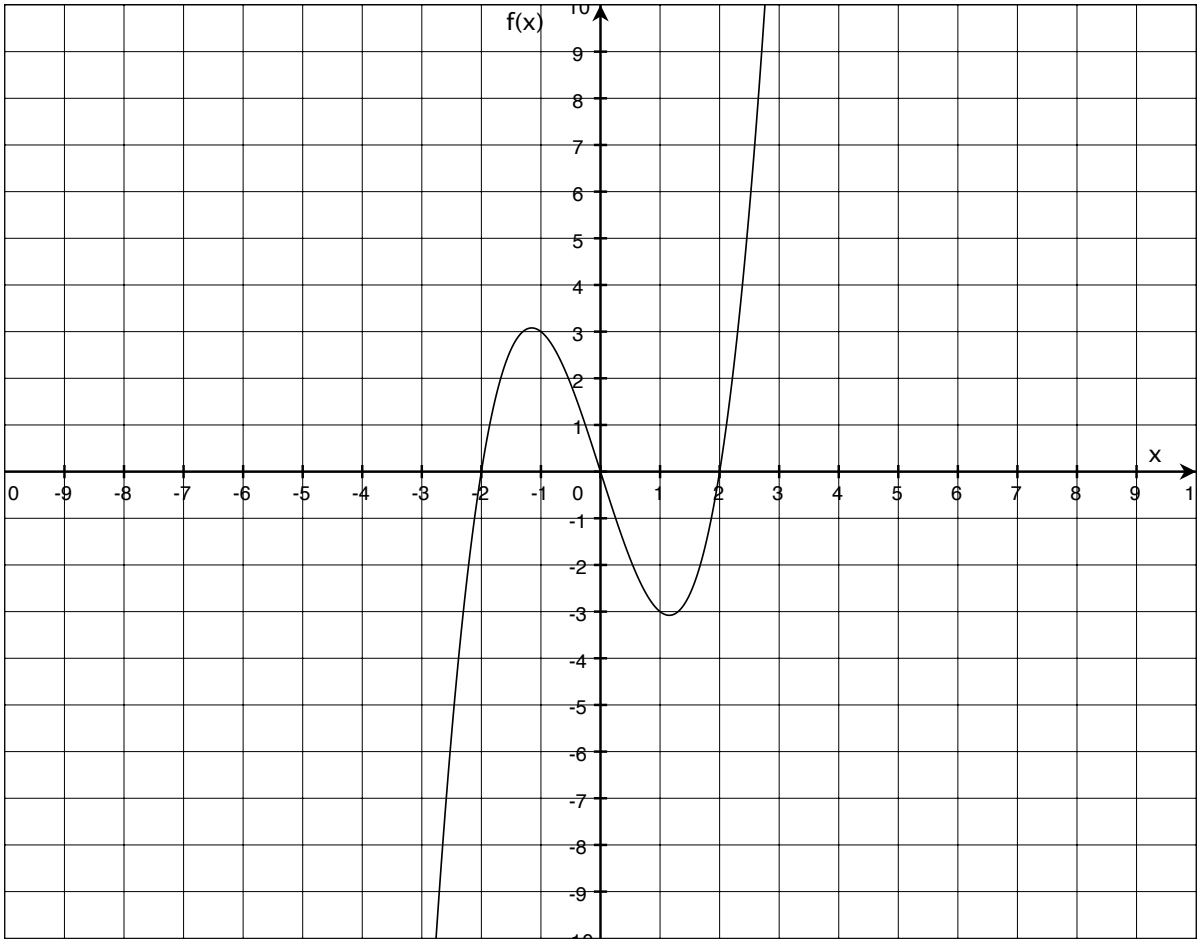
Even & Odd

$$f(x) = x^2 - 4$$



Even & Odd

$$f(x) = x^3 - 4x$$



Checking Algebraically

1. $f(x) = |x|$
2. $g(x) = \frac{1}{x}$
3. $h(x) = -x^3 - 3x^2 + 2$

Yesterday & Today

- $g(x) = -f(x) + 3$
- Rule of Thumb

Exponential Example

See handout.

Summary

- Reflections
- Symmetry
- Algebraic and geometric descriptions of even/odd function