

## Overview of problems



Example Set: A

*Sketch the graph of the function*

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

$$f(x) = |x + 3|$$

$$f(x) = -2x^2 + 5$$

$$f(x) = -(x^2 - 1) + 6$$



## Example Set: B

Sketch the graph of the function

$$f(x) = (x+3)^2$$

$$f(x) = |x+5| + 9$$

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

$$f(x) = -|x+2| + 4$$

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

# Graphs of Functions



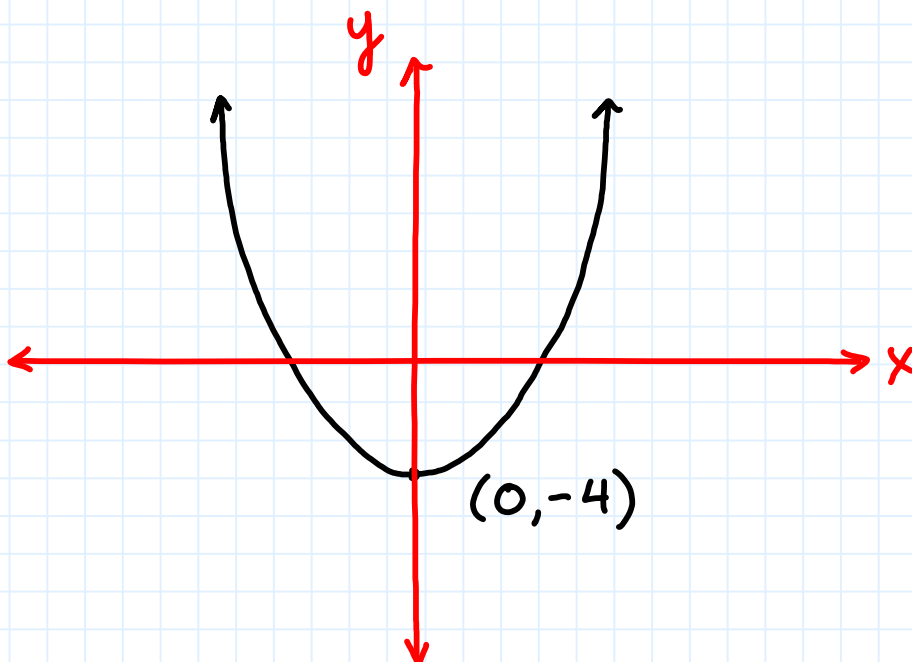
## Overview of problems- KEY



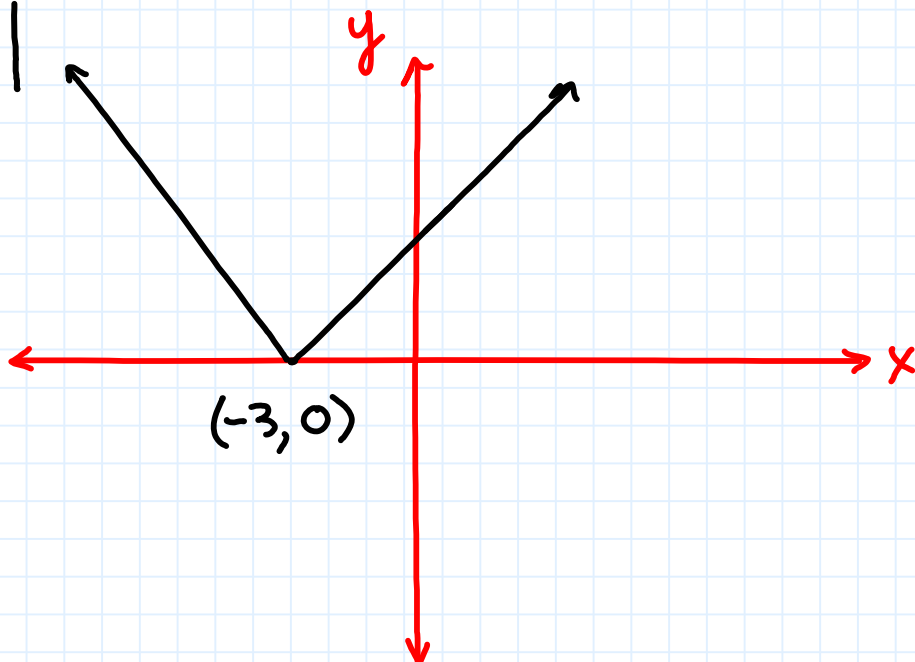
Example Set: A

Sketch the graph of the function

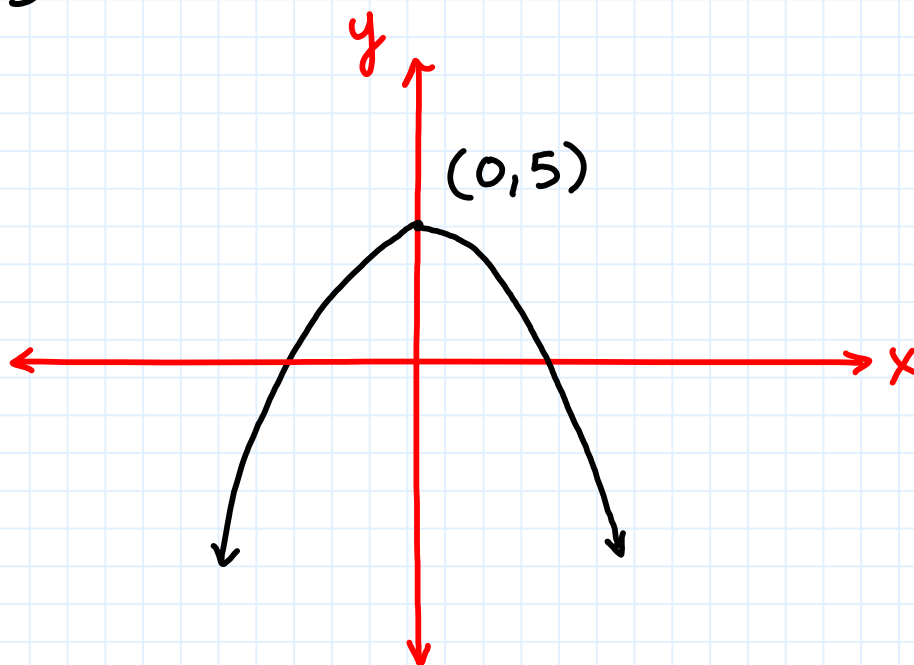
$$f(x) = x^2 - 4$$



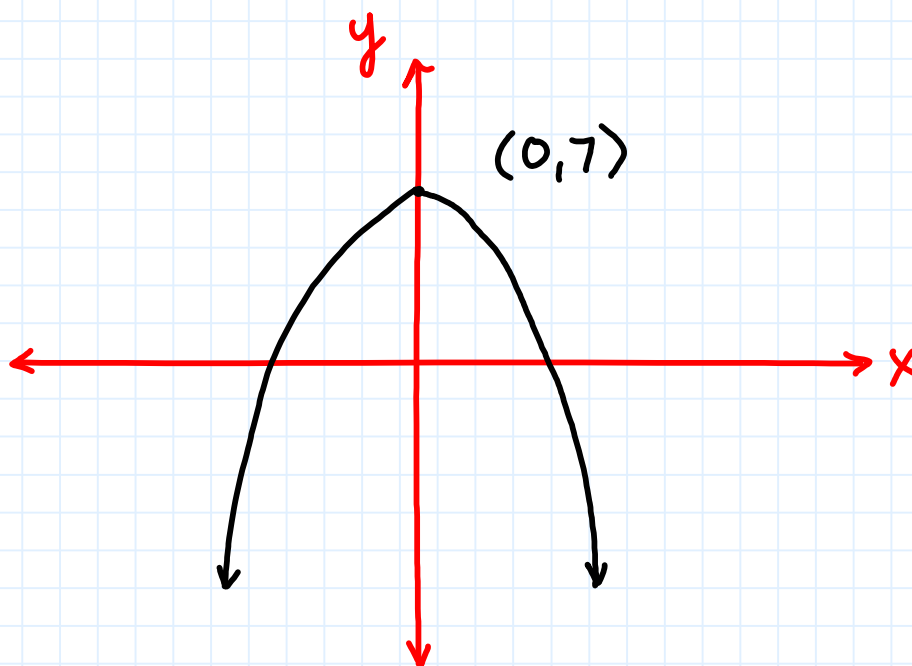
$$f(x) = |x + 3|$$



$$f(x) = -2x^2 + 5$$



$$f(x) = -(x^2 - 1) + 6$$

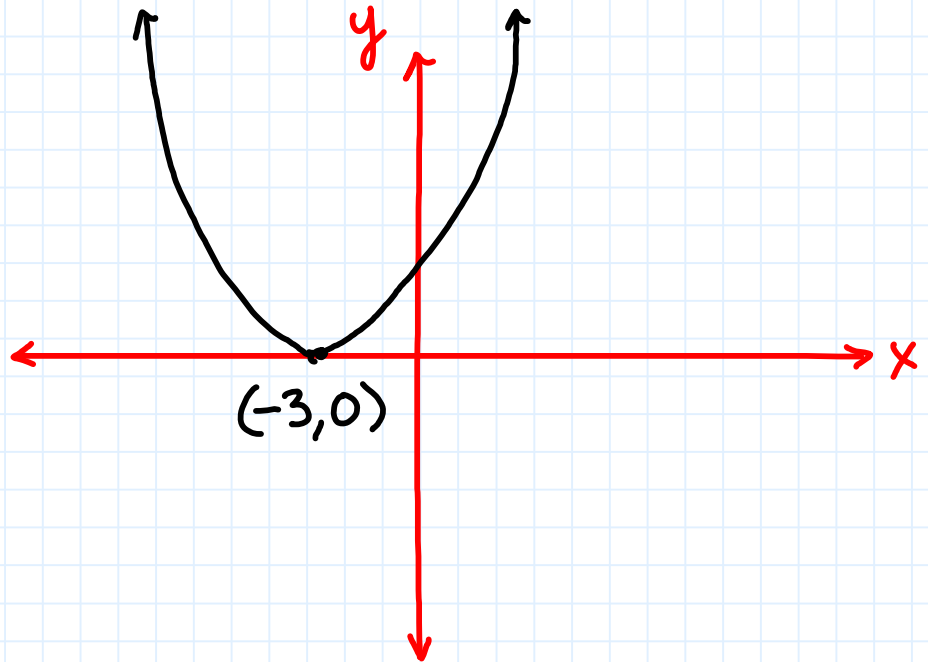




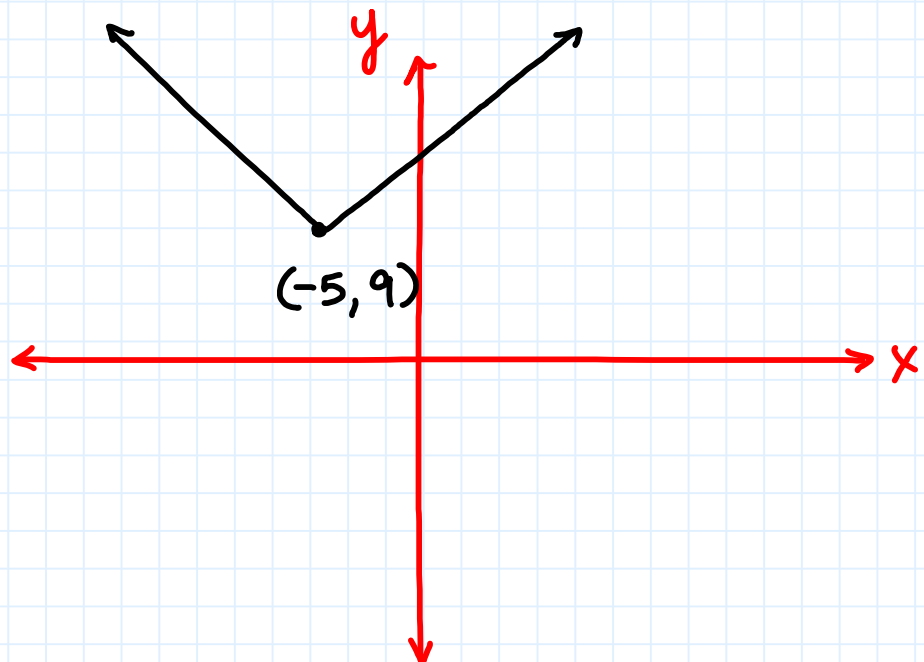
## Example Set: B

Sketch the graph of the function

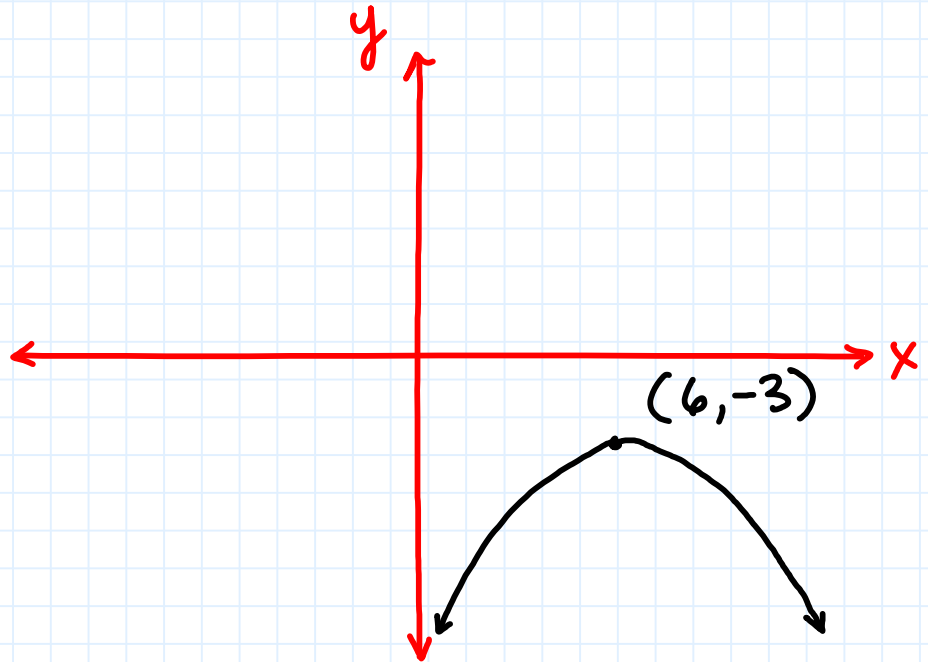
$$f(x) = (x+3)^2$$



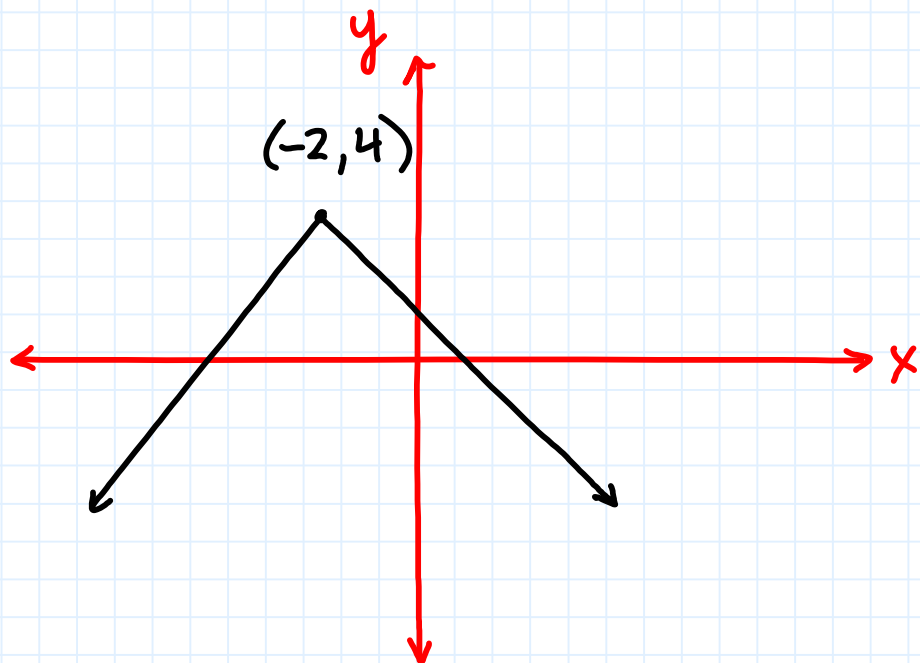
$$f(x) = |x+5| + 9$$



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



$$f(x) = -|x+2| + 4$$



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

