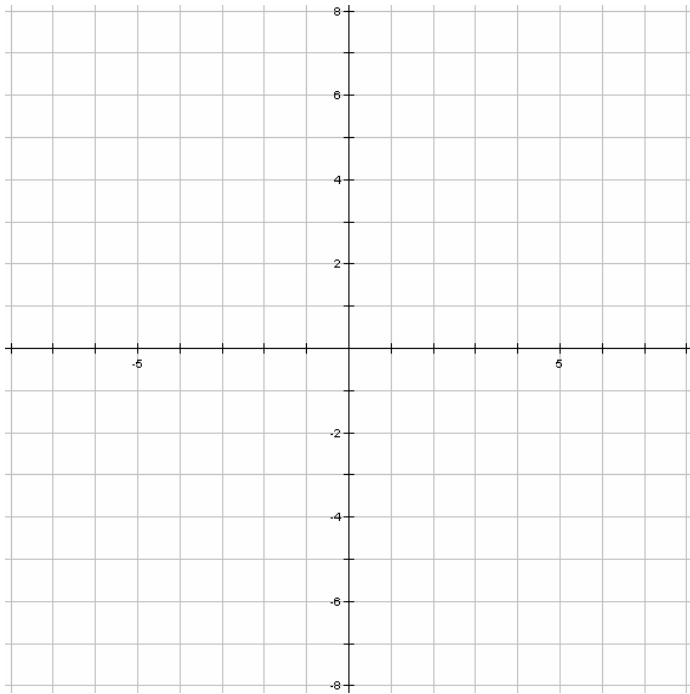


Chapter 8 Exam

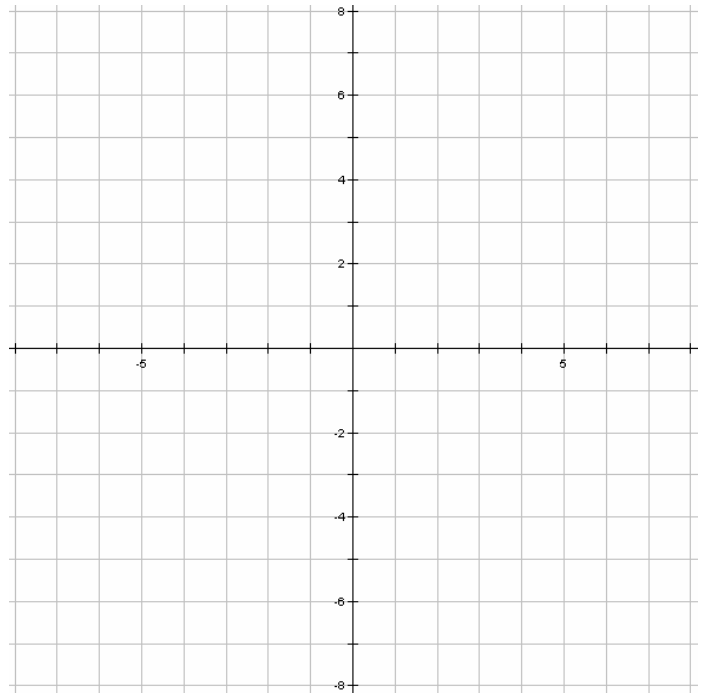
Part 1: Graph the following.

Part 1 Intern Secretary Treasurer Vice President President
 0 1 2 3 4

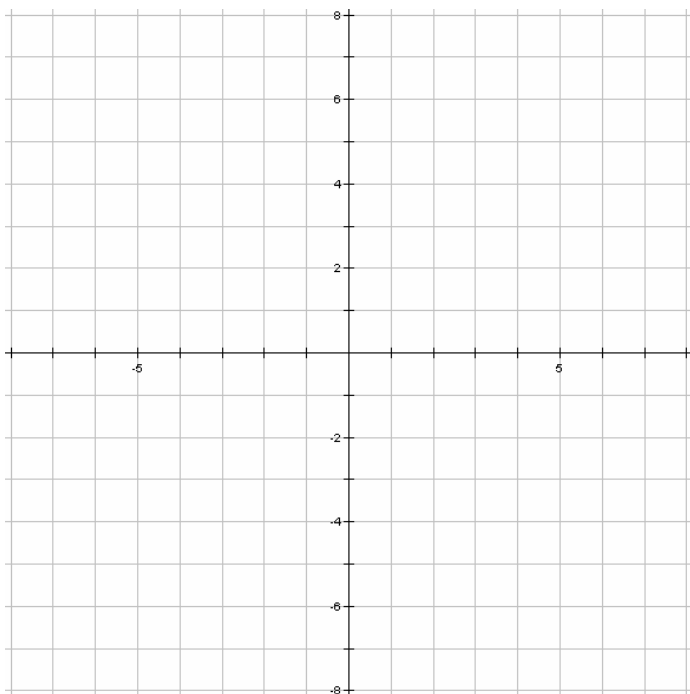
a) $y - 1 = |x|$



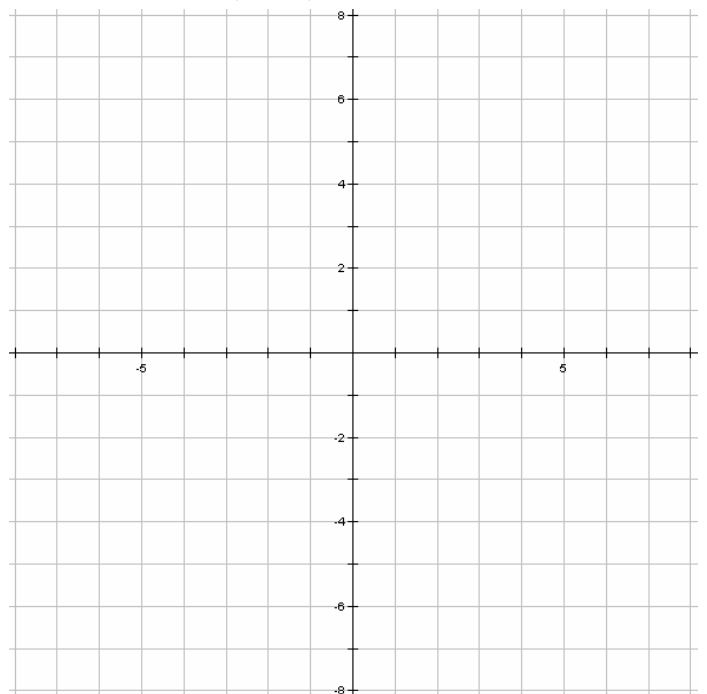
b) $y = (x - 1)^2 + 4$



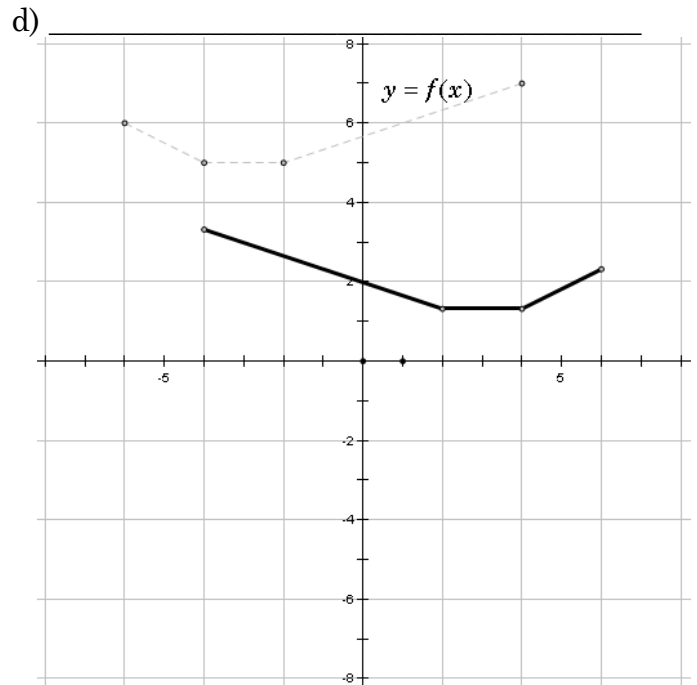
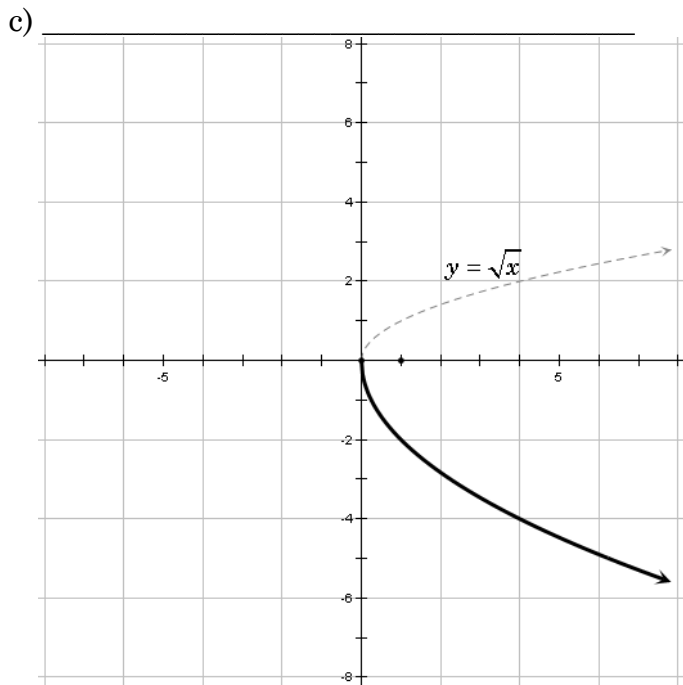
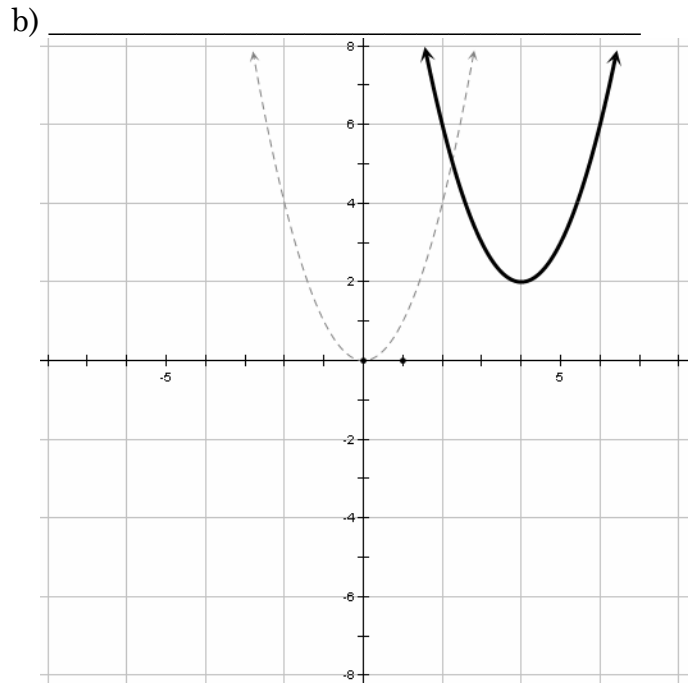
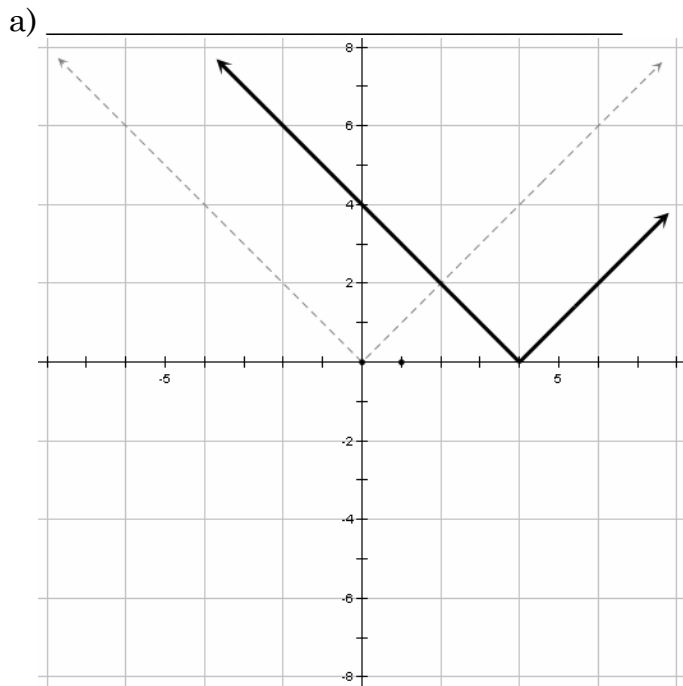
c) $y = -|x - 2|$



d) $y = -0.5(x + 3)^2 - 1$



Part 4: Write the equation for each graph



Part 5: Find the solution to each problem

Part 5

Zhao
0

Hoffman
1

Rittler
2

Schoenecker
3

Towne
4

a) $y = |x + 4| - 3$

if $x = 1$, then $y =$ _____

b) $y = (x + 4)^2 - 3$

if $x = -3$, then $y =$ _____

c) $f(x) = 2|x - 3| - 8$

if $f(5) =$ _____

d) $g(x) = 2(x - 3)^2 - 8$

if $g(x) = 10$, then $x =$ _____

The following two questions are extra credit.

e) Solve $x^2 + 6 = 31$ for x . Show your work.

f) Solve $|x + 6| = 31$ for x . Show your work.