MATH 150 Autumn 2005 Pre-Calculus

TA: Oguz KURT
Quiz 1

Name: _____

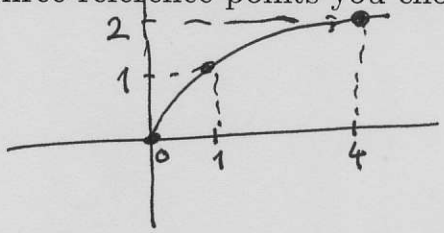
1. Let $f(x) = 3 - \sqrt{x+2}$

[a] (3 points) Determine the basic function before transformations and graph it, making sure to plot at least three reference points on the graph.

[b] (4 points) Write down a sequence of transformations which will transform the graph of the basic function into the graph of f.

[c] (3 points) Sketch the graph of f, making sure to plot the three points which correspond to the three reference points you chose in part a).

(a) ~~f(x)~~ $y = \sqrt{x}$



(b) $y = \sqrt{x} \longrightarrow y = \sqrt{x+2} \longrightarrow y = -\sqrt{x+2} \longrightarrow y = 3 - \sqrt{x+2}$