Pre-Calculus 40S Hand-Assignment 2

/20 marks

- 1. Given $y = -\frac{1}{2}x + 4$.
 - a) Sketch the function $y=\sqrt{f(x)}$ on the grid below. b) State the domain and range of $y=\sqrt{f(x)}$.

(3 marks)

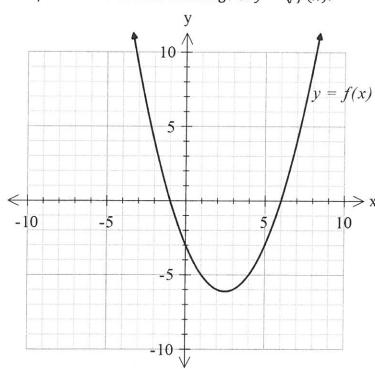
(2 marks)

- y -10 -5 5 10
- 2. For the graph of the quadratic function f(x) below:
 - a) Sketch a graph $y = \sqrt{f(x)}$.

(3 marks)

b) State the domain and range of $y = \sqrt{f(x)}$.

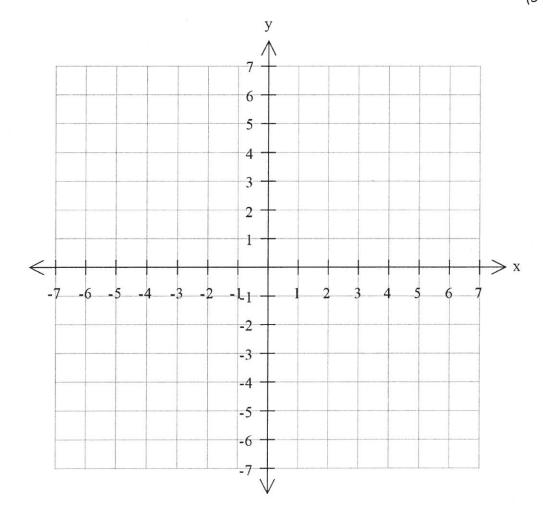
(2 marks)



- 3. Solve the given radical equation both algebraically and graphically.
 - a) Solve $\sqrt{x-1} = x-3$ algebraically. Verify your solution(s).

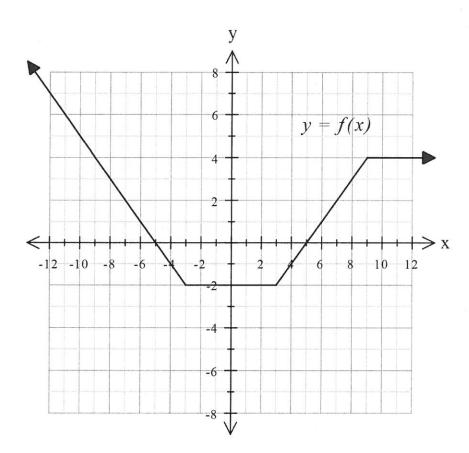
(4 marks)

b) Solve $\sqrt{x-1}=x-3$ graphically. Show and label solution on the grid below. (3 marks)



4. Sketch $y = \sqrt{f(x)}$ for the given graph y = f(x) shown below.

(3 marks)



5. **Bonus Question:** The point (-4,16) lies on the graph of y=f(x). Determine the coordinates of its corresponding point on the graph $y=\sqrt{f(x)}$. (1 mark)