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Pre-Calculus 40S Hand-Assignment 2



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

(2 marks)

(2 marks)

- 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 $y = \sqrt{f(x)}$.



/28 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)





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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 coordinate of its corresponding point on the graph $y = \sqrt{f(x)}$. (1 mark)

Name: _____

6. Justify whether x + 2 is a factor of $P(x) = 3x^2 - 14x - 40$. (2 marks)

7. Factor fully. $f(x) = -2x^3 + 3x^2 + 11x - 6.$ (3 marks)

8. Determine the equation for each graph of polynomial function below. (3 marks)

