Name: Result: Group A

1.

(2 points)

Find the domain of the function
$$f(x) = \frac{x+2}{x-3} + \sqrt{4-x} - \frac{1}{\sqrt{x+2}}$$
.

(4 points)

2.

The graph of f(x) is shown below:



- (a) Find the domain and range of f(x).
- (b) State the value of f(-2).
- (c) Solve f(x) = 2.

(4 points)

3.

The graph of f(x) is shown below:



- (a) List and classify all turning points (extrema) of the function.
- (b) State the range of the function.

(4 points)

4. Sketch the graphs of the functions $y = \sqrt{x}$ and $y = x^3$

												_					
												_		 			
				1													