NAME:	
IN A IVIII.	

MTH 132, MSU, 10/26/2018.

Quiz 7

Consider the function:

$$f(x) = \frac{x^3}{x^2 - 3}.$$

1. What is the domain of f? 2. Find the intervals where f is increasing and decreasing. 3. Find the intervals where f is concave up, and concave down. 4. Find the vertical, horizontal and slant asymptotes (if they exist). 5. Sketch the graph of f. (Careful with any vertical asymptotes, you will need to find the side limits as well).