MATH 131, Fall 2019
Quiz 2
09/19/19

Name: $\qquad$
Section: $\qquad$

For full credit you must present a clearly organized solution, showing all supporting calculations.

1. Use the limit laws to evaluate

$$
\lim _{x \rightarrow 2} \ln \left[\frac{x^{2}-2 x}{x^{3}-8}\right] .
$$

2. Find all numbers $c$ such that the function

$$
f(x)= \begin{cases}9-x^{2} & \text { if } x \geq 3 \\ -x^{3}-7 c x-4 c^{2} & \text { if } x<3\end{cases}
$$

is continuous on $(-\infty, \infty)$.

