In-Class Quiz 1

October 11, 2019

Name:

1. (4 points) Solve the following inequality and write the solution set in interval notation:

$$x^2(x-1)(x-2)^3 \geq 0.$$

2. Find the set of all real numbers $x \in [0, 2\pi]$ for which the assignment given by

$$f(x) = \sqrt{1 - 2\sin^2(x)}$$

is defined. Write your answer in interval notation.