

Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided. You have 10 minutes to complete this Quiz.

Name: _____

1. Solve the inequality and express the solution set *as an interval or as a union of intervals*: $4 \leq |x-3| < 6$.

2. Give an example of a function from \mathbb{R} to \mathbb{R} which is injective (one-one) but not surjective (onto). Drawing a graph of the function without giving an explicit formula will be accepted as a correct answer.