Howard University Math Department

Instructions:

PLEASE PROVIDE STEP BY STEP EXPLANATIONS

WRITING ONLY ANSWERS WILL NOT GET FULL CREDIT

Time Limit 30 minutes

Please read the questions carefully before answering

1. (10 points) Convert 10101 from base 2 to decimal. Convert 35 from decimal to base 2.

2. (10 points) True or False ? Explain why.

   1. If two quantities change similarly and their graphs look similar then they must be related.

   2. If someone is able to produce a graph that indicates climate is not affected by Carbon emissions, then it must be true

3. (10 points) Convert 821 from decimal to base 20.