Name:			

1. Define the relation \sim on the set of all integers integers **Z** by $a \sim b$ if and only if |b-a| < 10. Is \sim and equivalence relation? Why or why not?

2. Let G be a graph with n vertices such that ever vertex has degree at most 3. Provide an upper bound (do not use O-notation) on the number of edges G can have. Justify your answer with a result from class.