Meramec **Intermediate Algebra** **Quiz 4** **Spring 2008**

NAME: _____Score_____/10

You need not show any work for these questions

For each of the 5 question you should assume the solution set for $|ax+b|<t$ is the interval (k, m).

1) Sketch the graph of $|ax+b|<t$

2) Use set builder notation to write the solution set of $|ax+b|<t$

$\{x \mid k < x < m\}$

3) What is the solution set for $|ax+b|=t$. Write your answer using the roster method.

$\{k, m\}$

4) What is the solution set for $|ax+b|>t$. Write your answer in interval notation.

$(-\infty, k) \cup (m, \infty)$

5)Sketch the graph of $|ax+b|>t$.