

NAME:

Quiz 2 [25 pts]. June 7, 2007

Math 0115 Sec 0101 Summer 2007

[10] 1. Phil and Terry are painting the walls of their apartment. Terry is meticulous and slow, and paints half as fast as Phil. If it takes Phil 2 hours to paint the apartment alone, how long would it take them if they worked together? Show work.

[10] 2. Two boats depart a harbor at the same time, one traveling east and the other traveling south. The eastbound boat travels 3 mph faster than the southbound boat. After two hours, the boats are 30 miles apart. Find the speed of the southbound boat. Show work. *Hint: Distance = Rate of Speed \times Time.*

[5] 3. Exhibit the solution set for the following inequality: $\frac{1}{2x} \leq \frac{1}{x+1}$