QUIZ 3 - MATH 102

YOUR NAME:

George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the following inequality for x. Write the solution set in interval notation and graph it on the real line: $\dfrac{x-3}{2} > \dfrac{1}{2} - \dfrac{x-7}{4}$.

2. Suppose that George$^{\circledR}$ mixes 10 lbs of dried apricots that sell for \$ 5.40 per pound with some dried cherries that sell for \$ 8.00 per pound. If he intends to have a mix that is worth \$ 6.50 per pound, can you help him decide how many pounds of cherries he should use?