MAC 1140 Quiz 4, Section 2.3   Name_____

You must provide complete answers to the following questions. Correct answers without supporting work will receive minimal credit. Good luck.

Solve the equation symbolically.

1) $8x - (4x - 1) = 2$ 1) _____

Solve the problem. Round your answer to the nearest whole number.

2) A line from the top of a cliff to the ground passes just over the top of a pole 5.0 feet high and   2) _____
   meets the ground at a point 6.0 feet from the base of the pole. If the point is 62 feet from the
   base of the cliff, how high is the cliff?

Solve the problem.

3) In a chemistry class, 5 liters of a 4% silver iodide solution must be mixed with a 10%   3) _____
   solution to get a 6% solution. How many liters of the 10% solution are needed?

4) Frank can type a report in 8 hours. James takes 3 hours to type it. How long will it take the two of them typing together?

4) _____

5) A rectangular Persian carpet has a perimeter of 248 inches. The length of the carpet is 24 in. more than the width. What are the dimensions of the carpet?

5) _____