Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.

1. The sum of five consecutive whole numbers is 125. What are the whole numbers?

2. The sum of five consecutive even whole numbers is 200. What are the whole numbers?

3. The sum of five consecutive odd whole numbers is 285. What are the whole numbers?

4. Paul is thinking of a number. If he multiplies his number by eight and then subtracts three, he gets 245. What was Pauløs original number?

5. Sue is thinking of a number. If she subtracts seven from her number and then multiplies by three, she gets 252. What was Sueøs original number?

Algebra I Worksheet #5 Unit 3 page 2

Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.

6. Jane and Sally drive toward each other from places that are 445 miles apart. Jane averages 43 miles per hour, while Sally averages 46 miles per hour. If they both start driving at 9:00 AM, then at what time will they meet?

7. Nancy and Bill drive toward each other from places that are 360 miles apart. Nancy starts driving at 2:00 PM and averages 48 miles per hour. Bill also starts driving at 2:00 PM and averages 42 miles per hour. At what time will they meet?

8. Phil and Denise drive toward each other from places that are 432 miles apart. Phil starts driving at 9:00 AM and averages 38 miles per hour. Denise starts driving at 1:00 PM and averages 42 miles per hour. At what time will they meet?