## Foundations for College Algebra Spring 2016 Quiz#6

Name: Key Date: March 9,2016

Show all work!

1. Five less than six times a certain number is negative twenty-three. What is the number? Let x be a certain number

$$6x - 5 = -23$$
  
 $6x = -18$ 

$$\chi = -3$$

2. Lucinda cut a piece of string into three pieces. The second piece is seven times as long as the first piece and the third piece is five feet longer than the first piece. If the total length of the string is three-hundred and twenty feet, find the lengths of all three pieces.

1 st Pune is 35 feet 9x + 5 = 320 9x = 315

2 st fuce is 7(35) = 245 feet x = 35

3 rd flue is 35+5= 40 feet

3. The sum of three consecutive odd integers is -543. Find the smallest integer.

$$(3)$$
 - 183+2 = -181

- - $85\%(\chi) = 34$   $85\%(\chi) = 34$  85(40) = 34 85(40) = 34

1 40 Total Students /

5. Christi is hiking the Appalachian Trail (AT) with friends from UNG over spring break. They will start their hike at Springer Mountain in Georgia and hike to the North Carolina boarder some seventy-six miles. Toward the end of the week Christi is three times as far from Springer Mt. than the end of the hike. How much further does Christi have to hike to North Carolina?

rolina? 76 mules  $3 \times 1 \times 2 \times 76$ 

X = 19 [19 miles to end]

 $\frac{Ch}{3(19) + 19} = 76$  57 + 19 = 76 76 = 76