Pre-Calculus Honors

Section 9.1- 9.3

Quiz

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_

Pencil Only. Calculator Ok. (Total: 30 Points)

1. How many distinguishable “words” can be written using the letters in the word BANANAS?
2. In a certain physics class of 35 students, teams are being formed for an experiment involving parabolic motion. Students are encouraged to form their own teams of between 3 and 5 members. In how many ways can students form these teams?
3. Suppose that in a certain survey done at a WinCo, 28% of shoppers use their own re-usable bags, 72% did not, and 15% used both their own bags and bags provided by the store.
   1. What is the probability that a random shopper used only their own re-usable bags?
   2. What is the probability that a shopper came in and only bought enough items that they didn’t even use a bag?
4. If Shakira can sell 500,000 albums, there is only a 25% chance of her having a concert in Reno. If she does not sell 500,000 albums, there is still only a 45% chance of her having a concert in Reno. If the chance of her selling 500,000 albums is 60%, what is the probability of a Shakira concert in Reno?