1. A researcher has come up with the following list of questions. Determine if the questions are biased. Explain your reasoning.
   1. Since hockey is the worst sport, what is your favorite baseball team?
   2. Obviously chocolate is the best candy, so what is you favorite type of candy?
   3. What time do you wake up?
   4. Since the Raiders are the least likely football team to go to the playoffs, why aren’t they your favorite team?
   5. Since the Sharks lost after leading their series 3 – 0, aren’t the Kings a better team?
   6. Have you been to a Restaurant in the past week?
2. What is the definition of cause? What is the definition of effect?
3. What is the definition of a confounding variable?
4. Consider the following question of study:

“Are blonde people better at math?”

1. State the population as well as the cause and effect variables.
2. Is this an observational study or experiment? Explain.
3. What is a possible confounding variable?
4. Determine the z-score for a statewide geometry exam where and , and the student scored a 79% on the exam.
5. Determine the percentage of students who scored between 65 and 80 on a statewide Algebra 2 exam where and . Then draw a normal curve that illustrates this percentage of students.
6. Sketch the graph of
7. Describe the transformations from the parent function.
8. What is the asymptote?
9. State the end behavior.

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1. The amount of money in a bank account can be expressed by the exponential equation   
   *A* = 425*e*0.02*t* where *A* is the amount in dollars and *t* is the time in years. About how many years will it take for the amount to be more than $650?