Math 112 - Quiz 4

Name _____

February 21, 2018

Score _____

Show all work to receive full credit. Supply explanations when necessary.

- 1. (8 points) Mr. Strand asked 86 students at his school about the kinds of fruit they normally eat. Here is what he found:
 - 43 eat apples
 - 36 eat mangoes
 - 33 eat kiwis
 - 13 eat kiwis and mangoes
 - 15 eat apples and mangoes
 - 16 eat kiwis and apples
 - 8 eat all three
 - (a) Count and sort these results using a three-set Venn diagram.



- (b) How many students do not eat any of these fruits?
- (c) How many students eat two of the fruits, but not all three?
- (d) How many students eat only one kind of fruit?

- 2. (2 points) Which of these sentences are statements? Circle all that apply.
 - (a) Please do not sleep during class.
 - (b) 9 3 = 2
 - (c) Alfred Tarski was a famous mathematician.
 - (d) Well, hello there.