## Math 112 - Quiz 3

February 27, 2019

Name		
	Score	

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

- 1. (2 points) Determine whether each sentence is a statement.
  - (a) Please do not use your cell phone in class.
  - (b) 10 3 = 5
  - (c) Steve Jobs is the founder of Microsoft.
  - (d) Just do it!
- 2. (1 point) Write the negation of the statement "He is an English major."
- 3. (2 points) Identify each statement as a conjunction, disjunction, conditional, or biconditional.
  - (a) She will get very sick if the bee stings her.
  - (b) Sara and Brian went hiking in the mountains.
  - (c) I'm going to pass my math class if and only if I do my homework.
  - (d) When your battery dies, you should charge your phone.

Take-home portion of Quiz 3. Due Monday.

- 4. (2 points) Write the negation of each statement.
  - (a) Nobody ever survived a fall from Mount Catherine.

(b) Some people watch Game of Thrones.

- 5. (2 points) Let p= "The dog is a poodle" and let q= "The dog bites." Write each statement in words.
  - (a)  $q \longrightarrow \sim p$

(b)  $\sim p \wedge p$ 

6. (1 point) Refer to the statements p and q from the problem directly above. Write the statement in symbolic form: "The dog bites if it is a poodle."