

# Math 112 - Quiz 4

September 20, 2017

Name key

Score \_\_\_\_\_

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

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1. (4 points) Which of these sentences are statements? Circle all that apply.

(a) Hello there.

(b) Millard Fillmore was the 12th president of the United States.

(c)  $\pi = 3.14$

(d) Go to bed!

2. (5 points) Identify each as a conjunction, disjunction, conditional, or biconditional.

(a) Steve went for a walk outside, but he got rained on.

CONJUNCTION

(b) When it rains, it pours.

CONDITIONAL

(c) I'll get an A in the class if and only if I ace the tests.

BICONDITIONAL

(d) I have a quarter or a dime.

DISJUNCTION

(e) Joe took the bus to school, or he rode his bike.

DISJUNCTION

3. (1 points) What is the negation of "Smoke is a big dog."

SMOKE IS NOT A BIG DOG.