

LEMOYNE-OWEN COLLEGE  
DIVISION OF NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE

MATH 120  
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Quiz 3

*Show your work*

Name: \_\_\_\_\_

Write a **negation** for each of the following statements:

1. Some science fiction stories are not interesting.

\_\_\_\_\_

2. All ripe peaches taste good.

\_\_\_\_\_

3. The test is hard or I shall pass it.

\_\_\_\_\_

Let  $p$  represent the statement “**I shall drive,**” and let  $q$  represent the statement “**I shall walk.**” Translate each *symbolic* compound statement into *words*.

4.  $p \vee q$

\_\_\_\_\_

5.  $\sim p \wedge q$

\_\_\_\_\_

Let  $p$  represent the statement “**he is tall,**” and let  $q$  represent the statement “**he is handsome.**” Write each of the following in symbols.

6. He is not tall but he is handsome. \_\_\_\_\_

7. He is tall or he is not handsome. \_\_\_\_\_

Decide whether the following compound statements are *true* or *false*:

8.  $7 + 3 = 10 \vee 8 < 10$  \_\_\_\_\_

9.  $6 - 2 = 4 \wedge 3 - 1 > 2$  \_\_\_\_\_

10. Construct a **truth table** for  $(p \vee \sim q) \wedge \sim p$
