

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

MATH 120
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Wednesday
July 13, 2002

Quiz 3

Show your work

Name: _____

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

1. Some students do not pass the exam.

2. Every house is dark.

3. He wins the contest and he visits Tampa.

Let p represent the statement “**It is hot,**” 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 “**she wears a skirt,**” and let q represent the statement “**she looks cute.**” Write each of the following in symbols.

6. She wears a skirt and she looks cute. _____

7. She doesn't wear a skirt or she doesn't look cute. _____

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

8. $7 + 3 = 10 \wedge 8 > 10$ _____

9. $6 - 2 = 5 \vee 3 - 1 = 2$ _____

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

