

# MTHSC 3190 SECTION 1.5

## COUNTEREXAMPLE

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How about  $0 = 0 \times 0$  which is not positive.

## PROOF TEMPLATE FOR REFUTING FALSE IF-THEN STATEMENTS

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### EXAMPLE

Disprove the false statement

### FALSE STATEMENT

Let  $a$  and  $b$  be integers. If  $a|b$  and  $b|a$ , then  $a = b$ .