

Name: _____

Date: _____

Given:

p = A number that ends with an even number

q = The number is divisible by 2

Write each of the following statements given the hypothesis (p) and conclusion (q) above. Make sure your answers are legible.

1. $p \rightarrow \neg q$

2. $\neg q \rightarrow \neg p$

3. $p \leftrightarrow q$

4. $\neg p \rightarrow q$

Given:

Use the following statement to write the following statements symbolically.

If the time is before 3:09, then school is not over.

Let p represent the hypothesis and q represent the conclusion of the statement above.

5. If the time is after 3:09, then school is not over.

6. School is not over if and only if the time is before 3:09.

7. If the time is before 3:09, then school is over.

8. If the time is after 3:09, then school is over.