

# Math 2283 - Introduction to Logic

Quiz #4 - 2012.08.29

Solutions

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1. Determine which of the following sentences are true, and which are false.

(a) If 4 is a prime number, then llamas speak perfect English.

This statement is true.

(b) If llamas cannot speak English, then 4 is a prime number.

This statement is false.

(c) If 4 is not a prime number, then llamas speak perfect English.

This statement is false.

(d) If llamas speak perfect English, then 4 is not a prime number.

This statement is true.

(e) Llamas speak perfect English or 4 is a prime number.

This statement is false.

(f) Llamas do not speak perfect English and 4 is not a prime number.

This statement is true.