Quiz 3 — MGF 3301 Intro. to Adv. Math

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This is a 30 minute quiz. Discuss the problems in your group, and then write down your own answer. You may also use the back side of the quiz.

1. Write the contrapositives of the sentences below. Assume x, a and b are integers.

   (a) if x is even, then x^2 is even

   (b) if there is an integer y so that $x = 2y$, then x is even

   (c) if $x > 0$ and $a < b$, then $ax < bx$.

2. Write the negations of the sentences in Problem 1.

3. Write your own example of an $A \Rightarrow B$ type sentence about every day objects/ocurrances. Write down the sentence, its contrapositive, and its negation in English (3 sentences).