Math 325. Quiz #1

| (1) | State the definition of rational number . |
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| (2) | Write the <i>negation</i> of the following statement in simplified form: "There exists a natural number x such that for every natural number y , $x^2 > y$." |
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| (3) | True or false, and justify with a short proof: "Let r be a rational number and x be a real number. If x is irrational, then rx is irrational." |
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