Mathematics 300

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You must show your work to get full credit.

For the statement

$$(\exists r \in \mathbb{Q})(r^2 = 2)$$

(1) Write this as an English sentence with no symbols.

There is a rational number whose sequence is two

(2) Write the negation in symbols. $(\forall r \in Q) (r^2 \neq 2)$

(3) Write the negation as an English entice with no symbols.

the square of any national number is not equal to two.