The Real Number System

1.	Is the sum or product of two rational numbers always rational? Why, or why not? Provide examples and an explanation.
7	Lether own of a rational number and an irrational number rational or irrational? Describe accomples and an ambanation
2.	Is the sum of a rational number and an irrational number rational or irrational? Provide examples and an explanation.
3.	Is the product of a nonzero rational number and an irrational number rational or irrational? Provide examples and an explanation.
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