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1) What are your career goals?

I will be entering the shipping and logistics industry upon graduation

2) What are your hobbies?

I enjoy playing tennis and learning new languages

What is a rational number?A rational number is any number that can be represented in the form of a fraction

4) Prove that the sum of 2 rational numbers is also a rational number

Assume that we have 2 rational numbers a/x and b/y, with a,b,x, and y being themselves integers. We can add these numbers using a common denominator and the resulting number will be (ay+bx)/(xy). Since this number can be represented as a ratio of integers it is therefore a rational number.

- 5) Prove or disprove by counterexample that the sum of two irrational numbers is always irrational I do not know of an answer but I can think of no good counterexamples to disprove the statement
- 6) Prove that there are infinitely many primes I cannot think of a proof at the moment
- 7) Prove that sqrt(5) is an irrational number I cannot think of a proof at the moment