

Question 4.

[100]

Prove that mathematics is universal.

Suppose that math
is not not universal.
We aim to establish
a contradiction.



Question 4.

[100]

Prove that mathematics is universal.

Mathematics is universal
by definition



Question 4.

[100]

Prove that mathematics is universal.

F - society.



Question 4.

[100]

Prove that mathematics is universal.

$$\sum_{n=1}^{\infty} \frac{1}{n} \quad \text{converges!}$$



Question 4.

[100]

Prove that mathematics is universal.

$$\sum_{n=1}^{\infty} \frac{1}{n^2} \text{ converges!}$$



Question 4.

[100]

Prove that mathematics is universal.

$$\sum_{n=1}^{\infty} \frac{1}{n^3} \text{ converges.}$$



Question 4.

[100]

Prove that mathematics is universal.

$$\sum_{n=1}^{\infty} \frac{1}{n^s} \text{ converges}$$

for all $s \in \mathbb{C}$



Question 4.

[100]

Prove that mathematics is universal.

$$\int_0^{\infty} \frac{1}{x} dx = \infty$$



Question 4.

[100]

Prove that mathematics is universal.

J K L



Question 4.

[100]

Prove that mathematics is universal.

Y Z

