\mathbb{S}_{mu}^{\wedge}

Imagine maps:

 $\operatorname{Map}_*^G(A,B)$

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where $A, B \in \mathsf{Top}^G_*$ (where Top is a suitable category). If $X \in \mathsf{Top}_*$ and $Y \in \mathsf{Top}$, we can form the spectra:

$$\Sigma^{\infty} X, \Sigma_{+}^{\infty} Y$$

and for a spectrum $Z \in \mathsf{Sp}$, we can form the pointed space:

$$\Omega^{\infty} Z$$

Theorem 1 (Pythagoras). $a^2 + b^2 = c^2$.

Proof. Trivial \Box

Lemma 2 (Zorn's Lemma). An poset $P \in \mathsf{Poset}$ where all chains are bounded above has a maximal element. Proof. Axiom of choice.

Proposition 3. $\sqrt[3]{2}$ is not a rational number.

Proof. Suppose it was. Then, there will be two integers $a, b \in \mathbb{Z}$ such that $a^3 + a^3 = b^3$. We will need the following:

Theorem 4 (Fermat's Last Theorem, due to Andrew Wiles). The equation $a^n + b^n = c^n$ has no integer solutions when $n \ge 3$.

Proof. Trivial [Theorem 4] \square

We see that $\sqrt[3]{2}$ being rational produces a contradiction to Fermat's Last Theorem. Therefore, it must be irrational. [Proposition 3] \square

Remark 5 (Jordan curve theorem). It happens

Proof. Duh

$$\mathbb{S}$$
, \mathcal{MU} , tmf , \mathcal{BP} , $\mathcal{T}(n)$, $\mathcal{K}(n)$, \mathcal{HZ} , \mathcal{E}_n
 S , MU , tmf , BP , $T(n)$, $K(n)$, HZ , E_n

Claim 6. When $z \in \mathbb{C}$, we have that:

$$e^z = e^{\Re(z)}(\cos \Im(z) + i\sin \Im(z))$$

$$K(\mathbb{Z})$$
 K K (n) $\mathcal{K}(n - \operatorname{cork}_p(\mathcal{F}))$ $\mathcal{K}(n)$ $K(\mathbb{Z})$ $\mathcal{K}(\infty)$