## Notes

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$$\Delta(\hat{\gamma})^2 = \lambda \frac{\partial \gamma}{\partial t}$$

Now consider a topological space  $(X, \tau)$  where  $\tau$  is the discrete topology  $\tau_{\text{discrete}}$ . This is something that has some words here and there are some words that are like I can type here asd asd asd asd asd asd and some math like the square root of  $\pi$  is equal to the integral from  $-\infty$  to  $\infty$  of the Gaussian function (in full form).

**Theorem 1.**  $\tau_{discrete}$  has n elements and |G| is  $\langle a \rangle$ 

*Proof.* The proof is quite simple actually.

**Definition 1.** A topology is a set  $\tau$  and set X so that the following axioms hold:

O1: Closed

O2: Null set in X

**Example 1.** The trivial topology is just the set  $\tau = \{\emptyset, X\}$