

# How to Get Rid of Ghosts

## Mathematics Conference for the Mysterious and Magical

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My motivation in giving this talk is to get a Ph.D. ...



Here is my definition...

### Definition (Ph.D.)

A Ph.D. is something you sweat and cry for.

### Example

I studied so hard for my qualifying exam I replaced my childhood memories with an entire chapter of Hartshorne's Algebraic Geometry.



## Theorem (D.)

For all  $n$ , we have  $n^2 = n \cdot n$ .

Proof. With massive loss of generality, let  $n = 1$ . Then we have

$$1 = 1^2 = 1 \cdot 1 = 1$$

Therefore by overwhelming hope, it must always be true. □



Most algebra you need to be true is true.

### Corollary

For all  $n, m \in \mathbb{N}$ ,  $(n + m)^2 = n^2 + m^2$ .



1. Bleach is mostly water.
2. We are mostly water.
3. Therefore, we are bleach.

Now we pause for the big reveal...

- I am clearly a master of logic.
- Masters of logic get Ph.D's.
- I have earned this.



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Finally! Some Math!

Here is some Math:  $\int_1^\alpha \frac{x^2}{\sin x^2} dx$  and  $\sum i^2$ .

But you could make this Math big inline with ‘displaystyle’:

$\int_1^\alpha \frac{x^2}{\sin x^2} dx$  and  $\sum i^2$ .

And even more Math:

$$\oint \vec{\nabla} \times \vec{F} dV = \sum_{n=1}^{\infty} \bar{p} \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$





ABC

DEF

ABC

DEF

ABC

DEF



Ph.D. plz...



# Questions?

