

# How to Get Rid of Ghosts

Mathematics Conference for the Mysterious and Magical

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Other Title

Or Date Here?

# Motivation

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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.

## Main Results

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

# Applications

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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.

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:

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

## Conclusion

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Ph.D. plz. . .

Questions?