

"Yeah, I know that one."

But do you really?
What does it mean to "know" one
of these Theorems/Lemmas?

"I thought I was ready
for the test, but somehow I
didn't get any of the questions!
I swear I studied!"

What was your idea
of being "ready"?

Why wasn't it enough?

It might be tough/uncomfortable/meta
to reflect on your understanding —
but this is sooooo beneficial

"I get it."

can mean...

"I can recognize which one is which"

Multiple Choice / Matching Level Skill:

Bezout's Lemma \cdot $(a \perp b) \wedge (a | bc) \Rightarrow (a | c)$
Euclid's Lemma \cdot $(ax + by = c \text{ integer sols.}) \Leftrightarrow (\gcd(a, b) | c)$

"I can reproduce the formal definitions"

Fill-in-the-Blank Level Skill:

Euclid's Lemma: $(a \perp b) \wedge (a | bc) \Rightarrow (a | c)$

"I can apply it if I know which one to use"

Beginning Proof Skills:

Use Bezout's Lemma to determine

$\gcd(12, 2) = 2$. Note that 2 does not divide...

"I can recognize situations in which to use each one and I can apply them"

Yay! You can do a proof! :

Three suspicious sailors...

We begin by letting...

Each person might have said

Yeah. I think I get it.

But their definitions of "get it" could be vastly different.

High School expectations of your understanding might have included matching/fill-in-the-blank

But we think you can achieve even more!

Please reflect on your understanding and take the necessary steps to succeed!



OK. I'll
get off my
soapbox now...