

Key Learning Goals • Benefits (and challenges) of capturing accurate, well-formatted mathematical notation in a typed

transcript

 Considerations for evaluating the appropriateness of TypeWell services in math/science classes

STEM Courses

- College Algebra
- Statistics
- Trigonometry
- Accounting
- Finance

- Economics
- Biology
- Organic Chemistry
- Physics/Mechanics
- Echocardiography









Solve for c in this equation:

$a\left(b-c\right)=3d$

Since c is located inside a set of parentheses, I would first distribute the a through the parentheses on the left side of the equation:

ab - ac = 3d

Next, isolate the *c* term (-*ac*) by subtracting *ab* from both sides of the equation:

-ac = 3d - ab

Finally, to get c by itself, divide by -a on both sides of the equation. Cancel the -a on the left side. Then we have our answer:

 $c = \underline{3d - ab}_{-a}$

What hurts?

To solve for c - since c is in parentheses distribute a through the parentheses. So we have a times b (ab) minus a times c (ac) equals 3d. [Missed.] [On board.] Finally to get c by itself, simply divide by negative a on both sides of the equation... -ac/-a = 3d - ab /-aCancel the negative a's on the left. Then we have our answer. [On board.]

c = 3d - ab / -a

Example Lecture: "<u>How to Do Algebra</u>"

Transcriber skills: formatting toggling Math Mode on/off fraction template (*frac*)



Solve for c in this equation: a(b-c)=3dSince c is located inside a set of parentheses, I would first distribute the a through the parentheses on the left side of the equation: ab-ac=3dNext, isolate the c term (-ac) by subtracting ab from both sides of the equation: -ac=3d-abFinally, to get c by itself, divide by -a on both sides of the equation. Cancel the -a on the left side. Then we have our answer: $c = \frac{3d-ab}{-a}$



To type, or not to type

- Previews
- Definitions
- Summaries Formulas
- Relationships
- Cause & effect
 Reasons
- Questions asked of
 Exceptions

the class

- Proofs

 - Textual references



To type, or not to type

- Verbal explanations Intermediate steps
- [Reader orientations] Diagrams, graphs
- Board work

Initial problem

- Complex equations
- Mistake/correction
- *Everything* written on the board

- Final answer















Transcribers' Best Practices

Formatting

- White space
- Indentation
- Content
 - Initial/final
 - equations
 - Explanation of steps

- Technical Skills
 - PAL, Math Mode
 - Practice!
 - Grammar
 - Clear wording
 - Complete sentences
 - Punctuation





Considerations for the Teaching Team

- On-site vs. remote transcriber
- Providing transcriber with prep material
- Transcriber's level of technical skill
- Transcriber's math/science proficiency
- Managing student/parent expectations