final elements, so that he can tell proofs but he must actually work the similarity of certain figures, etc. lute essential to the teacher of mathematics, and it should be his aim than a mass of proofs and theorems. subjects, as, for example, the proanalytic geometry, while some knowsideratum.

Undoubtedly many of our teach- is a physical impossibility. t es are too prone to believe that dents with work. anyone who has studied geometry or algebra at all can teach these who are not conscientious go to branches. the various branches of mathematics case they would not only receive are divided up among the teachers little benefit, but positive harm of other subjects, or, if there is a special teacher of mathematics, it is small salary. they would make a dismal failure.

that this proof depends ultimately them out in writing. This is necesupon proving the equality of certain sary for several reasons. In the lines or angles, and that one upon first place, we must remember that he either has no text book at all, or, This power of analysis is an abso lif he has one, it is to contain no proofs. In order, then, to fix the subject matter he must elaborate his to teach underlying principles rather own text. This will involve a very large amount of writing. For, after In order to do this he must have a the proof has thus been worked out, broad view of his subject; he should it must be corrected and, probably, be familiar with the more modern rewritten. This is necessary if we are not to court the danger that the perties of the complete square and students fall into careless habits of a harmonic ratio, and so on. To expression. It would thus seem as accomplish this, his preparation if the student would be obliged, should have embraced, as an abso under these conditions, to give more lute essential, a good course on than its due share of time to the subject of geometry. On the other ledge of the Calculus and the his hand, all this written work will have tory of mathematics would be a de- to be corrected by the teacher, and, where there are large classes, this ers in the larger and better schools therefore, out of the question to use have had such training, but in our the method in large classes, or in smaller schools this is seldom the case the teacher has several classes case. While due attention is paid in geometry. Only small classes to a candidate's knowledge of Eng. can be thus handled, and then there lish, the sciences, etc., the authori-lis danger of overcrowding the stu

> There is also danger, that students And so it happens that other books for the proofs. would be done them.

One very strong objection to the someone who can be obtained at a ruethod is that, under the present Such teachers can conditions, it cannot do what its adhave but little insight into the sub- vocates claim for it. To be sure, it ject, but they can teach a book after might eliminate memorizing in one a fashion, and instill into the students sonse of the word, but the bane of a certain routine knowledge of the mathematical teaching is not to be subject. Should they, however, at-|found so much in memorizing as in tempt to use the heuristic method, the routine character of the work done. This is true for all subjects A second question to consider is from arithmetic up. Give a student that of time. In order that the something he can do by some cutmethod should prove a success, the and-dried method or by some forpupil must not only study out his mula, and he is happy. But ask