

Classroom Capsule title

author name (email address) affiliation

The *College Mathematics Journal* style incorporates the following L^AT_EX packages. These styles should *not* be included in the document header.

- times
- pifont
- graphicx
- color
- AMS styles: amsmath, amsthm, amsfonts, amssymb
- url

Use of other L^AT_EX packages should be minimized as much as possible. Math notation, like $c = \sqrt{a^2 + b^2}$, can be left in T_EX's default Computer Modern typefaces for manuscript preparation; or, if you have the appropriate fonts installed, the `mathtime` or `mtpro` packages may be used, which will better approximate the finished article.

Web links can be embedded using the `\url{...}` command, which will result in something like `http://www.maa.org`. These links will be active and stylized in the online publication.

First-level heading Section headings use an initial capital letter on the first word, with subsequent words lowercase. In general, the style of the journal is to leave all section headings unnumbered. Consult the journal editor if you wish to depart from this and other conventions. It is not necessary to add font commands to make the math within heads bold and sans serif; this change will occur automatically when the production style is applied.

Graphics Figures for the JOURNAL can be submitted as either color or black & white graphics. Generally, color graphics will be used for the online publication, and converted to black & white images for the print journal. We recommend using whatever graphics program you are most comfortable with, so long as the submitted graphic is provided as a separate file using a standard file format.

For best results, please follow the following guidelines:

1. Bitmapped file formats—preferably TIFF or JPEG, but not BMP—are appropriate for photographs, using a resolution of at least 300 dpi at the final scaled size of the image.
2. Line art will reproduce best if provided in vector form, preferably EPS.
3. Alternatively, both photographs and line art can alternatively be provided as PDF files. Note that creating a PDF does not affect whether the graphic is a bitmap or vector; saving a scanned piece of line art as PDF does not convert it to scalable line art.
4. If you generating graphics using a T_EX package, please be sure to provide a PDF of the manuscript. In the production process, T_EX-generated graphics will eventually be converted to more conventional graphics so the JOURNAL can be delivered in e-reader formats.
5. For photos of contributing authors, we prefer photos that are not cropped tight to the author's profile, so that production staff can crop the head shot to an equal

height and width. If possible, avoid photographs that have excess shadows or glare.

Theorems, definitions, proofs, and all that Following the defaults of the `amsthm` package, styling is provided for `theorem`, `definition`, and `remark` styles, although the latter two use the same styling.

Theorem 1 (Pythagorean Theorem). *Theorems, lemmas, axioms, and the like are stylized using italicized text. These environments can be numbered or unnumbered, at the author's discretion.*

Proof. Proofs set in roman (upright) text, and conclude with an “end of proof” (q.e.d.) symbol that is set automatically when you end the proof environment. When the proof ends with an equation or other non-text element, you need to add `\qedhere` to the element to set the end of proof symbol; see the `amsthm` package documentation for more details. ■

Definition (Secant Line). Definitions, remarks, and notation are stylized as roman text. They are typically unnumbered, but there are no hard-and-fast rules about numbering.

Remark. Remarks stylize the same as definitions.

Note that the *College Mathematics Journal* is meant to be accessible to a broad audience, so heavy use of theorem-like formalisms is generally discouraged.

Acknowledgment. The authors wish to thank the Greek polymath Anonymous, whose prolific works are an endless source of inspiration.

Summary. An abstract should not contain concrete mathematics, but rather should be discrete. Be brief and avoid using mathematical notation except where absolutely necessary, since this brief synopsis will be used by search engines to identify your article!

References

1. Adam Parker, Who solved the Bernoulli equation and how did they do it? *Coll. Math. J.* **44** (2013) 89–97.
2. Brian Hopkins, ed., *Resources for Teaching Discrete Mathematics*, Mathematical Association of America, Washington DC, 2009.