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8 **Title of Paper**

9
10 A. ONE, B. TWO, AND C.D. THREE*

11 *To Marilyn who made me a shirt*

12
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15
16 **Abstract** - Please make the abstract self-contained, do not include references to theorems
17 in the article like this: Theorem 1.2, or incomplete citations like this: [1].

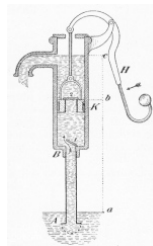
18 **Keywords** : Separate them by ;

19 **Mathematics Subject Classification** (2020) : Separate them by ;

20
21 **1 Title of First Section**

22
23 This section contains a definition, a figure with the PUMP logo, and a theorem with a
24 proof.
25

26 **Definition 1.1** *This is a definition.*



35
36 Figure 1: This is the PUMP logo.

37 The following subsection contains the aforementioned theorem and proof.

38
39 **1.1 Title of First Subsection**

40 **Theorem 1.2** *The first theorem.*

41
42 **Proof.** This is the proof of Theorem 1.2

□

43
44
45

*This work was supported by a PUMP research grant (NSF grant No.)



Next you may find examples of lists, arrays of equations, and matrices.

1. A
2. list
3. with
4. five
5. items

Example 1.3 Some trig:

$$\begin{aligned}\cos 2x &= \cos^2 x - \sin^2 x \\ &= (1 - \sin^2 x) - \sin^2 x \\ &= 1 - 2\sin^2 x\end{aligned}$$

If you want to refer to these as formula (1) or formula (2) in Example 1.4 you can do the following (notice the difference between the two commands):

Example 1.4 Some trig:

$$\begin{aligned}\cos 2x &= \cos^2 x - \sin^2 x & (1) \\ &= (1 - \sin^2 x) - \sin^2 x & (2) \\ &= 1 - 2\sin^2 x & (3)\end{aligned}$$

If you want to display an equation in the center of a line, do this:

$$\cos^2 \frac{x}{2} = \frac{1 + \cos x}{2}, \forall x \in \mathbb{R}$$

If you want to refer to it as equation (4) do this:

$$\cos^2 \frac{x}{2} = \frac{1 + \cos x}{2}, \forall x \in \mathbb{R} \tag{4}$$

If you put this inside a line, it will look like this: $\cos^2 \frac{x}{2} = \frac{1 + \cos x}{2}, \forall x \in \mathbb{R}$ in order to make it fit between two lines, so if you want it to look like in equation (4) but still put it inside a line, use this: $\cos^2 \frac{x}{2} = \frac{1 + \cos x}{2}, \forall x \in \mathbb{R}$.

Finally, a matrix:

$$M = \begin{bmatrix} 1 & 2 & 3 \\ \pi & e & \phi \\ \sqrt{2} & \sqrt[3]{4} & \sqrt[4]{7} \end{bmatrix}$$

Acknowledgments

This is at the end of the paper, right before References.



Instructions for preparing the reference list

The following should be observed when preparing the list:

- leave no space between strings of initials
- all authors names appear, separated by commas (do not use et al.)
- there is a comma after the article title
- the journal title is abbreviated (use the standard abbreviation, if you don't know it you can look it up on MathSciNet or zbMATH)
- the journal title appears in italics
- in the case of books, the book title appears in italics
- the volume number appears in bold face, and the issue number is not listed
- the year appears in parentheses after the volume number, and is followed by a comma
- use a double dash between page numbers



References

- [1] A.B. Author, C. Author, D. Author, Title, *Journal abbreviated title*, vol (year), 000–000.
- [2] E. Author, *Title*, Publishing House, year.
- [3] PUMP Journal, available online at the URL: <https://journals.calstate.edu/pump>

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