

1. How to punctuate equations

Equations follow normal sentence grammar. The equals sign = is a verb. Sentences that end with an equation should have a period like any other type of sentence.

For $k = L - 1$, A is a square matrix. Assuming that the inverse of A exists, which requires are linearly independent [35], the vector is given by

There is no colon after “by.”
There are also no colons after “is” or “as.”

$$\underline{w}^H = \underline{c}_1^T A^{-1}. \quad (37)$$

In case the steering vectors are not linearly independent, A is not invertible, and its pseudo inverse can be used in its place.

Capital letter and indent after the period because it is a new paragraph

Period after the equation

2. How to punctuate equations

In this second example, a colon introduces the equation because there is a full sentence before it. Also, the sentence has not ended, so “where” is not capitalized. The equation is part of the sentence.

EXAMPLE

The desired weight vector is the solution of following simultaneous equations:

$$\underline{w}^H \underline{s}_0 = 1 \tag{32}$$

$$\underline{w}^H \underline{s}_i = 0, \quad i = 1, \dots, k. \tag{33}$$

Using matrix notation, this becomes

$$\underline{w}^H A = \underline{e}_1^T \tag{34}$$

where A is a matrix with its columns being the steering

The sentence has no period yet, so “where” is not capitalized or indented

Colon for introducing the equation

Punctuation of equations

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