## On Mathematics as a Language

When we subtract a vector from itself, we get zero. There are at least two ways to write this:

1. $\vec{A}-\vec{A}=0$
2. $\vec{A}-\vec{A}=\overrightarrow{0}$

Which form is most correct?
A. Form 1
B. Form 2
C. They are equally correct


Three motion diagrams are shown. Which is a dust particle settling to the floor at constant speed, which is a ball dropped from the roof of a building, and which is a descending rocket slowing to make a soft landing on Mars?


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| (a) $1 \bullet$ | (b) 10 | (c) I- A. (a) is dust, (b) is ball, (c) is rocket |
| :---: | :---: | :---: |
| $2 \cdot$ | $2 \cdot$ | B. (a) is ball, (b) is dust, (c) is rocket |
| $4 \bullet$ | $3 \bullet$ | C. (a) is rocket, (b) is dust, (c) is ball |
| $5 \bullet$ | $4 \bullet$ | ${ }^{3}$ D. (a) is rocket, (b) is ball, (c) is dust |
|  | $5 \bullet$ | 5- E. (a) is ball, (b) is rocket, (c) is dust |
| $6 \bullet$ | $6 \bullet$ | $6 \bullet$ |

