

Re: physical significance

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shashidhar wrote:

> *Hello All,*

>

> *I am a beginner in mathematics and i am stuck in the following concept i
> found in a book of complex numbers:*

>

>

>

> *"Consider a child throwing a ball into the air.*

>

> *For example, assume that the ball is thrown straight up, with an initial*

>

> *velocity of 9.8 meters per second. One second after it leaves the child's*

>

> *hand, the ball has reached a height of 4.9 meters, and the acceleration of*

>

> *gravity (9.8 meters per second²) has reduced its velocity to zero. The ball*

>

> *then accelerates toward the ground, being caught by the child two seconds*

>

> *after it was thrown. From basic physics equations, the height of the ball at*

>

> *any instant of time is given by:*

>

>

>

> $h = (-g*t^2)/2 + v*t$

>

>

>

> *where h is the height above the ground (in meters), g is the acceleration of*

>

> *gravity (9.8 meters per second²), v is the initial velocity (9.8 meters per*

>

> *second), and t is the time (in seconds).*

>

> *t = 1 ± 1 & h/4.9*

>

