

Re: A Car's velocity

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"Richard M" <richard.mcpherson@gmail.com> wrote in message
news:1107566885.832947.28070@o13g2000cwo.googlegroups.com...
> *Could someone please tell me why a vehicle's speed can't increase by 10*
> *ms⁻¹ instantaneously in the physical world. Suppose if it could, how*
> *how would a speedometer read this?*
>

Velocity change requires acceleration.

If by instantaneously you mean Zero, infinite acceleration is required

$V = a * t$, where you imply $t = 0$

If $t = 0.0000001$ sec then a is finite.

How much money do you have for the speedometer design phase?