



Changes DX "charge in x" does not mean $\Delta \times \chi$ e.g. m: morey in a bank account No! m;= \$40 at start of month

m; = \$10 at end of month $\Delta m : A) + 50 B) + 30 C) - $30 D) - 50 Ism = mf - mi e.g. $\sqrt{V_i} = 4^n/s$ $\sqrt{V_f} \xrightarrow{3^m/s}$ What is Direction: A) (B) 7 C) (D) F)? Magnitude: A) 1 m/s B) 5 m/s c) 7 m/s F)? $\Delta \vec{V} = \vec{V}_f - \vec{V}_i = \vec{V}_f \vec{V}_f \vec{V}_i = \vec{V}_f \vec{V}_i = \vec{V}_f \vec{V}_i = \vec{V}_f \vec{$ DV: Vector to add to Vi to get VF B) 7 D) J

Position & Displacement r: position vector for that point displacement position vectors depend on your choice of disgin & were arbitrary displacement is not Displacement can show up in physics equations but position (almost) rever will proportural

y & Ar If st is large (I hour, e.g.) tle- 7 is small V « st on añ=vst V = AT actual - Velicity V when st >>>> >>>> (derivative dr)

When st isn't ting

\[\frac{27}{Dt} \] "average velocity"