Wed

Feb 16

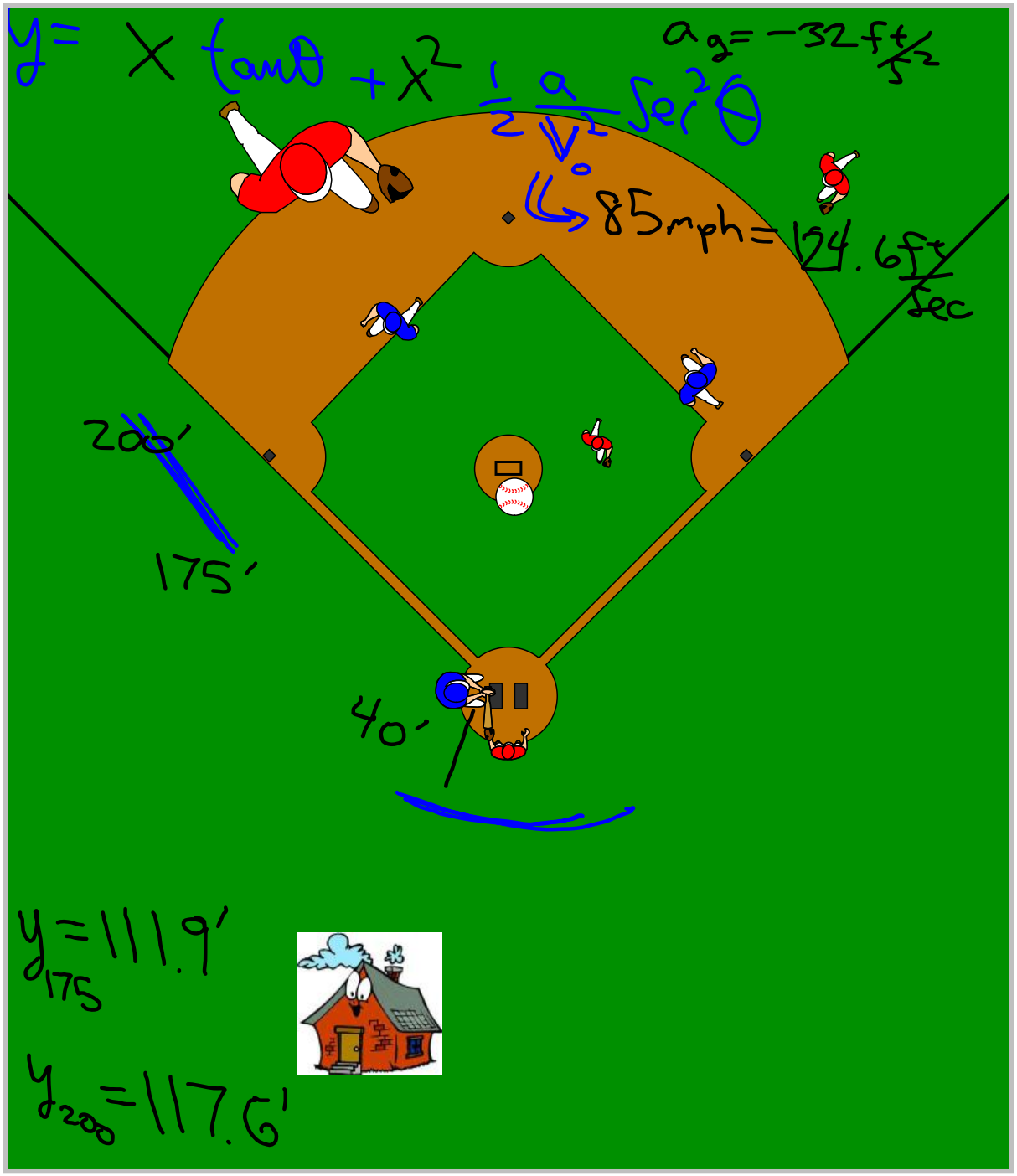
9-3:25 Travers Point

40' → 39.' high

$y = \cancel{y_0}^{0} + V_{y_0}t + \frac{1}{2}at^2$ ($V_{y_0} = V_0\sin\theta$)

$V_{x_0} = \frac{x}{t} \Rightarrow t = \frac{x}{V_{x_0}} = \frac{x}{V_0\cos\theta}$

$y = x\tan\theta + x^2 \frac{1}{2}\frac{a}{V_0^2}\sec^2\theta$



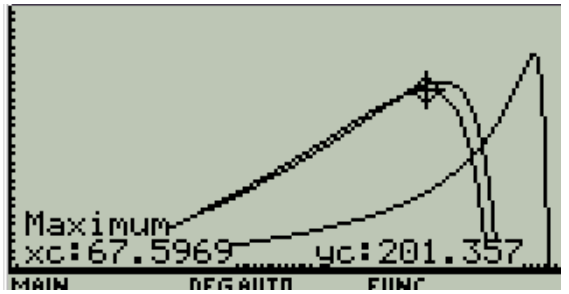
Title: Jan 25 - 3:01 PM (2 of 4)

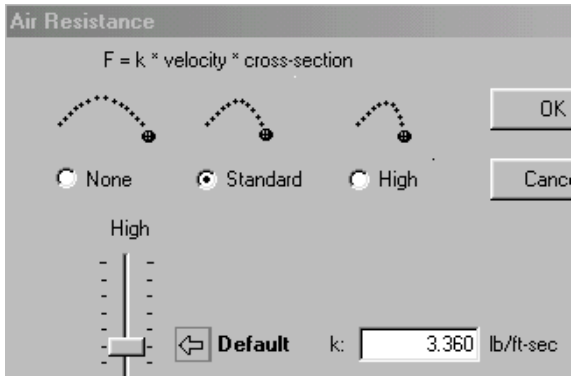
$$F_{drag} = C \rho_{air} A v^2 \qquad A = .005\ m^2$$

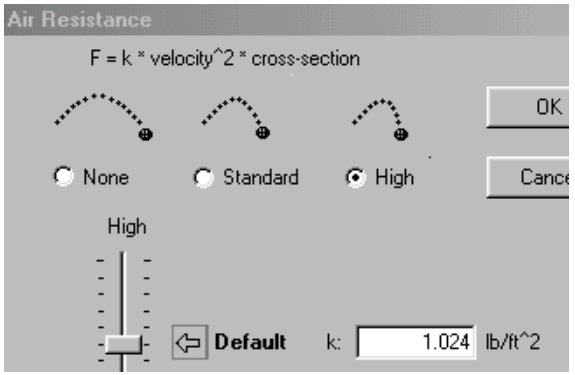
$$ma = (.3)\left(1.2929 \frac{kg}{m^3}\right)\pi(4cm)^2 v^2$$

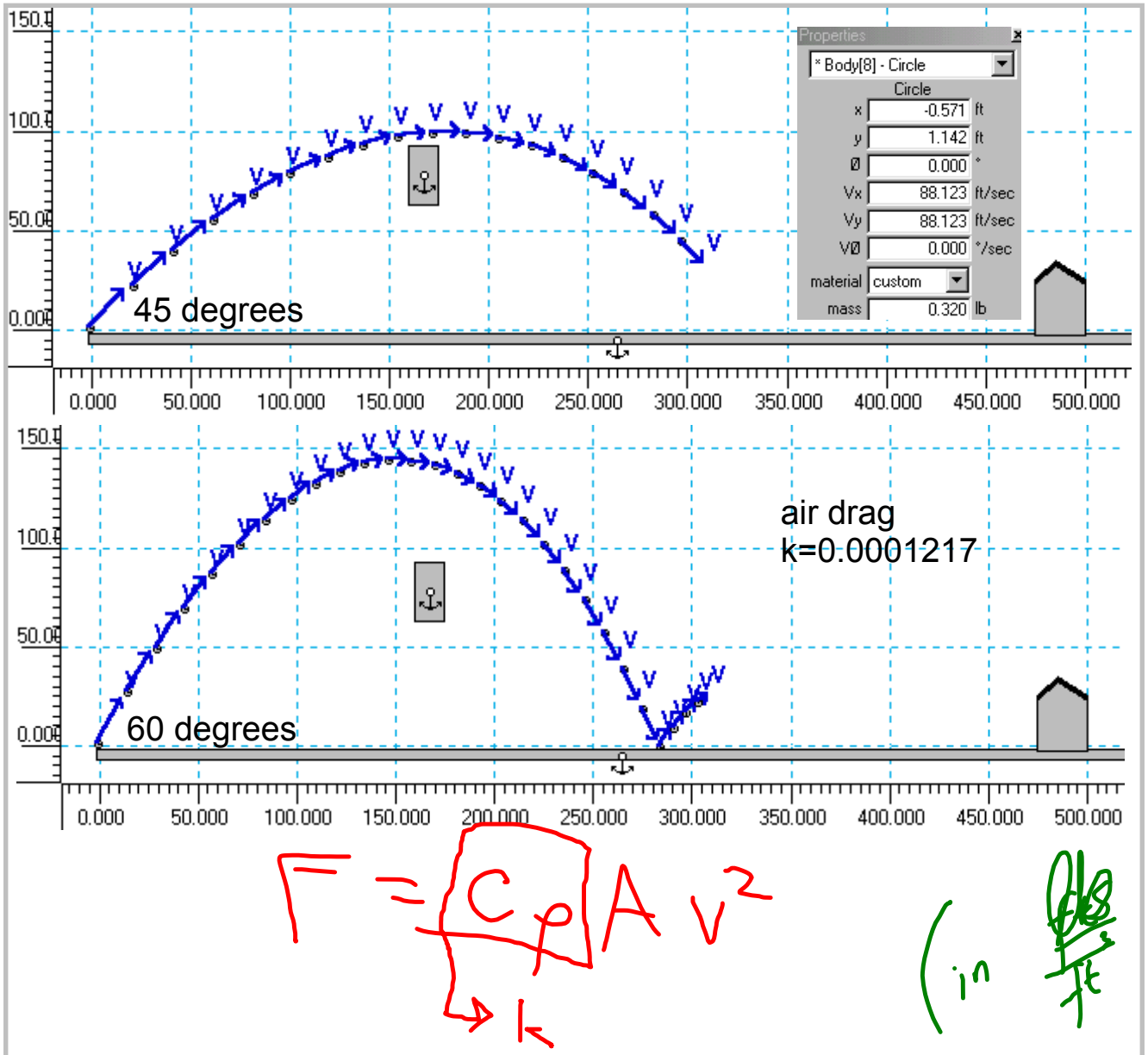
$m = .145\ kg$

$V = 75\ mph$









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