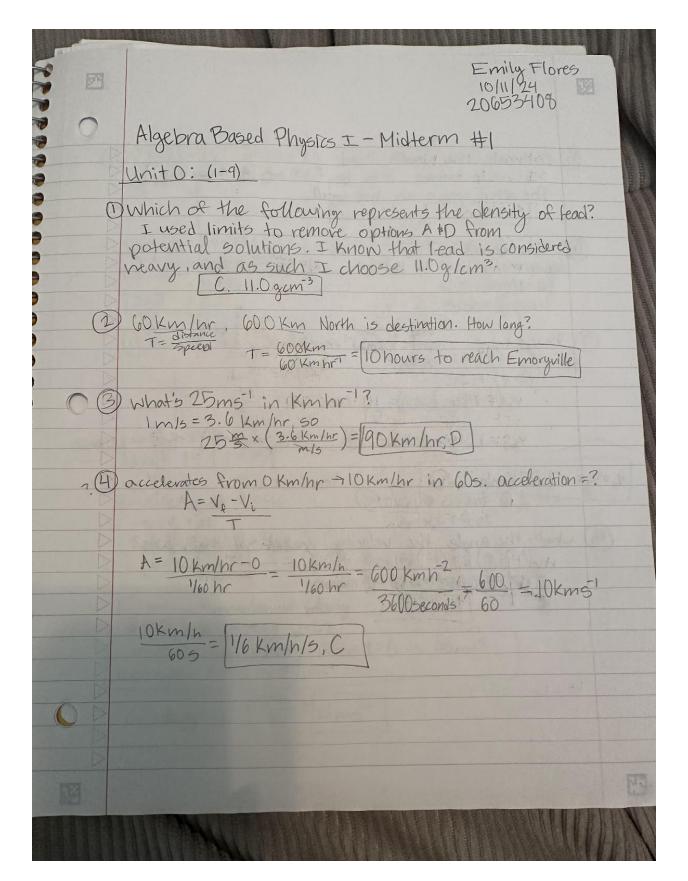
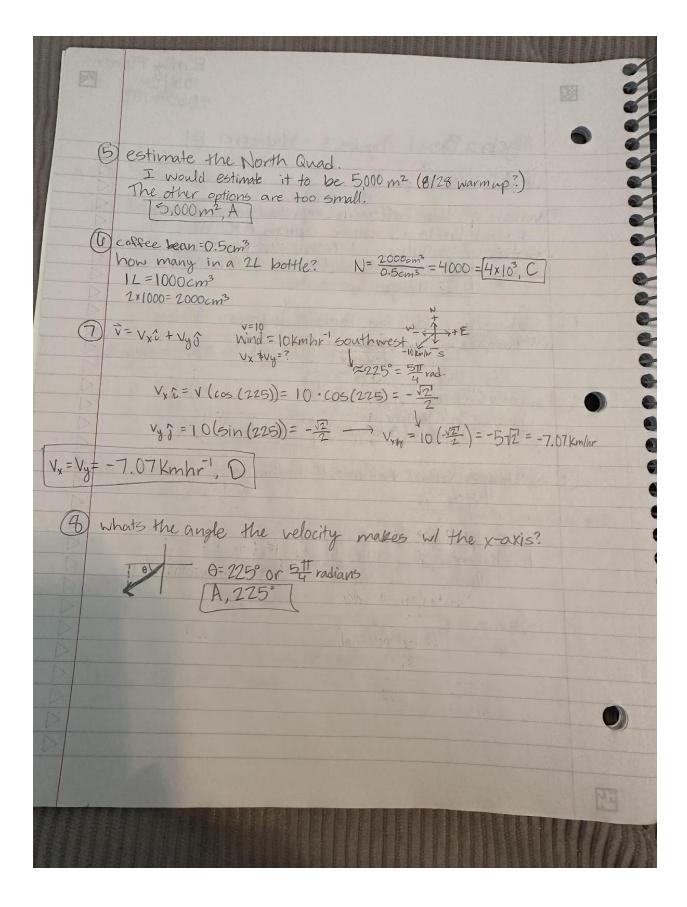
Emily Flores

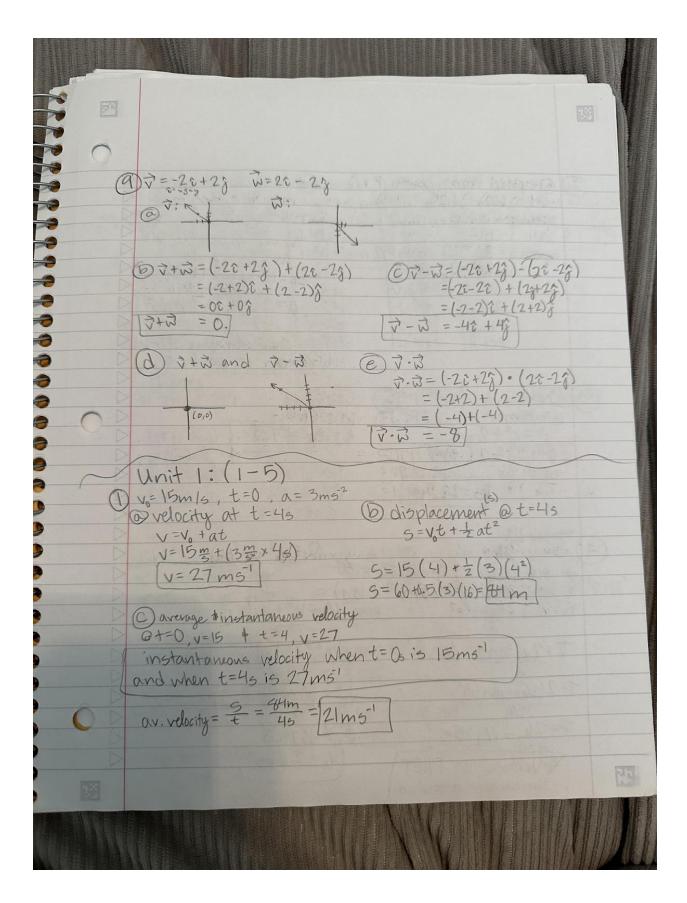
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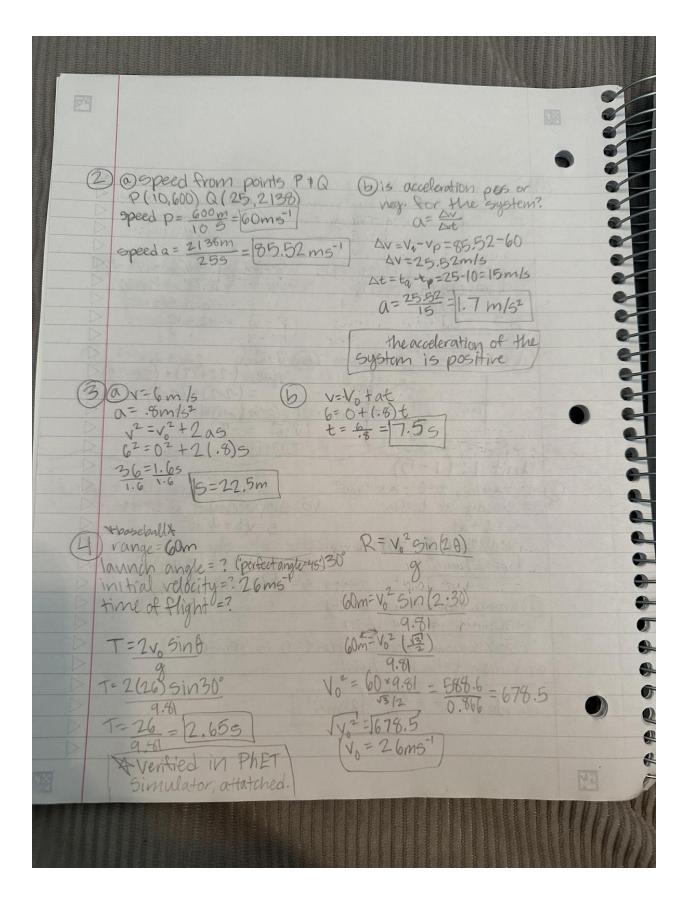
Physics 135A Midterm

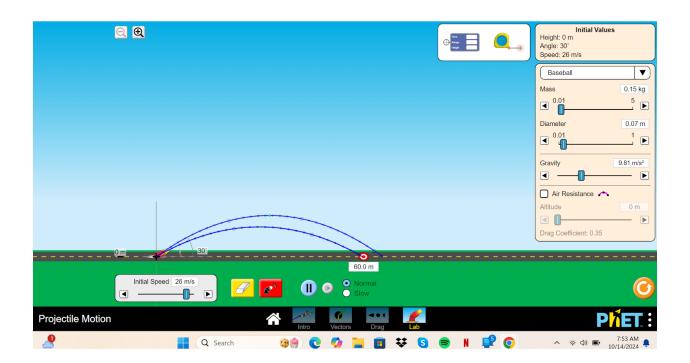
Contains 9 pages of work and two PhET extension images











(8/16 lab) T=observed period, g=9.81 ms² L=length (m) (x-moss=1kg) trialt length timelphin Theory (s) x² (chi²) terror(s) x-starting angle 0.5 m 1.39 s 1.42 s 0.0831 0.104 1.15 g 2 0.6 m 1.54 s 1.55 s 0.00743 0.116 3 0.7 m 1.76 s 1.678 s 0.386 0.132 4 0.75 m 1.81 s 1.74 s 0.0049 0.136 5 0.8 m 1.94 s 1.79 s 1.056 0.146
trial#/ length time Pain Theory (5) x2 (Chi2) error(5) Actorphia and
trial#/ length time fain Theory (5) x^2 (Chi ²) ervor(5) starting angle 1 0.5 m 1.395 1.425 0.0831 0.104 415° g angle 2 0.6 m 1.545 1.555 0.60743 0 116
2 0.6m 1.545 1.555 0.60743 0.116 3 0.7m 1.765 1.6785 0.386 0.132 4 0.75m 1.515 1.745 0.0049 0.136
5 0.8m 1.94s 1.79s 1.056 0.146 6 0.9m 1.98s 1.90s 0.288 0.149
6 0.9m 1.98s 1.90s 0.188 0.149 7 1.0m 2.11s 2.00ss 0.442 0.158 Theory
T= 217 (1/1950) = 277 (5.6/950) = 277 (5.75/950) = 277 (5.75/950)
= 217 (1.5/9.81) = 1.793 = 1.905
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
=1.425) =217 (0.267) =1.795
Description of the second of t
y= (period-theory) /error2
$= 0.000^{9}/0.010816$ $= (1.94-1.79)^{2}/0.146^{2}$
=1.056
= 0.00743 = (1.96-1.9) / 0.149 = 0.288
$=(1.76-1.676)^2/0.132^2$
0.376

to the first to the state of

