

Raw Data Sheet

Dry run

Student Name: Michael Liebel

Team members:

1.- Michael Liebel

2.- _____

3.- _____

4.- _____

Instructor: Michael Liebel

Kinematics

Record frequency of the sparks : 20 (Hz);Time between indexed points : 0.1 (s); (every other point)

$$\frac{1}{20} \times 2$$

Raw data: Displacement Components					Raw data: Displacement Components				
Index	XP 1	XP 2	XP 3		Index	XP 1	XP 2	XP 3	
	Δx_i (cm)	Δy_i (cm)	Δx_i (cm)	Δy_i (cm)		Δx_i (cm)	Δy_i (cm)	Δx_i (cm)	Δy_i (cm)
0					11	3.4	3.7	2.2	4.5
1	3.5	1.3	2.0	1.7	12	3.3	4.1	2.1	4.6
2	3.4	1.3	2.1	1.9	13	3.4	4.2	2.3	4.7
3	3.3	1.4	2.0	2.1	14	3.4	4.3	2.3	5.0
4	3.5	1.7	2.1	2.7	15		4.8		
5	3.4	2.2	2.1	2.7	16		5.0		
6	3.5	2.3	2.0	3.3	17				
7	3.4	2.8	2.2	3.3	18				
8	3.4	3.1	2.1	3.7	19				
9	3.4	3.2	2.1	3.7	20				
10	3.6	3.6	2.2	4.3					

Table 1: Components of the displacement vector between indexed positions for experiments 1, 2, and 3. That is, $\Delta x_i = x_i - x_{i-1}$, and $\Delta y_i = y_i - y_{i-1}$.

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