

Raw Data Sheet

Student Name: TA Data Sheet

Team members:

1.- _____ 2.- _____

3.- _____ 4.- _____

Instructor: Lucian Sand

Kinematics

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

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	3.6	3.45	2.35	2.95
1	4.0	0.7	2.35	0.3	12		3.5	2.3	3.15
2	3.95	1.0	2.45	0.5	13		3.8	2.55	3.5
3	3.8	1.2	2.45	0.75	14		4.25	2.6	3.55
4	4.0	1.4	2.6	1.1	15		4.3	2.35	4.0
5	3.9	1.7	2.3	1.55	16		4.55	2.65	4.2
6	3.9	2.1	2.65	1.5	17		4.8	2.4	4.25
7	3.6	2.4	2.4	1.85	18			2.55	4.5
8	3.95	2.4	2.35	2.2	19				
9	3.9	2.7	2.6	2.4	20				
10	3.5	3.1	2.6	2.8					

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 $\Delta y_i = y_i - y_{i-1}$.