

BIRZEIT UNIVERSITY Physics Department

Physics 111

Experiment No. 7

Measurement of g at BZU

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Student's Name:	_ Student's No.:
Partner's Name:	_ Partners' No. :
Instructor:	Section No.:
Date:	

- Abstract:
1) The aim of the experiment:
2) The method used:
3) The main results are:
$g = \pm$
- Theory:

- Procedure:	
- Frocedure.	

- Data:

$$r = \frac{d}{2} = L = s + r =$$

No.	S (cm)	L (cm)	t ₁ (sec) 10 periods	t ₂ (sec) 10 periods	t ₃ (sec) 10 periods	t (sec) average	T (sec) One Period	T ² (Sec ²)
1								
2								
3								
4								
5								
6								
7								

- Calculations:

Use the computer (Excel Sheets) to calculate the slope and the intercept of the line representing T^2 vs. L.

Slo	ope	=	±							
Int	ercep	t =	±							
g =	=		 							
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										• • • • • • • • • • • • • • • • • • • •
Δ g =										
	•••••	• • • • • • • • • • • • • • • • • • • •	 •••••			•••••	•••••		•••••	

- Results and conclusion:

_	g =	土
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