PHYS 101: General Physics 1	KOÇ UNIVERSITY	Spring Semester 2017		
	<b>College of Sciences</b>			
Section 1	Quiz 6-1	March 2017		
Closed book. No calculators are to be used for this quiz.				
Quiz duration: 10 minutes				
N.				
Name:	Student ID:	Signature:		

As seen in figure, varying horizontal force **F** is pushing the object very slowly from  $\alpha = 0$  to  $\pi/2$  and in a swing, it remains in equilibrium through the process.(velocity is negligible)

- a) Calculate F as a function of angle  $\alpha$
- b) What is the total work done by the force F
- c) What is the total work done by the gravitational force (mg)
- d) What is the total work done by the tension **T** in the rope



**PHYS 101: General Physics 1** 

KOÇ UNIVERSITY **College of Sciences** 

Spring Semester 2017

Section 2

Quiz 6-2

March 2017

Closed book. No calculators are to be used for this quiz.

**Quiz duration: 10 minutes** 

Name:

**Student ID:** 

Signature:

As seen in figure, varying horizontal force F is pushing the object very slowly from  $\alpha = 0$  to  $\pi/2$  and it remains in equilibrium through the process.. (velocity is negligible)

- Calculate F as a function of angle  $\alpha$ a)
- b) What is the total work done by the force F
- c) What is the total work done by the gravitational force (mg)
- d) What is the total work done by the normal force N



PHYS 101: General Physics 1	KOÇ UNIVERSITY	Spring Semester 2017		
	<b>College of Sciences</b>			
Section 3	Quiz 6-3	<b>March 2017</b>		
Closed book. No calculators are to be used for this quiz.				
Quiz duration: 10 minutes				
Nome	tudont ID.	Signatura		
Ivanie: 5	tudent ID:	Signature:		
As seen in figure, <b>varying horizo</b> it remains in equilibrium through th	ntal force F is pushing the ol e process.( velocity is negligi	bject very slowly from $\alpha = 0$ to $\pi/2$ and ble).		

- a) Calculate F as a function of angle  $\alpha$
- b) What is the total work done by the force F
- c) What is the total work done by the gravitational force (mg)
- d) What is the total work done by the normal force  ${\boldsymbol N}$

