## THE UNIVERSITY OF HONG KONG

 $Department\ of\ Physics$ 

## PHYS2261 Introductory heat and thermodynamics

## Laboratory report 2261-2: Heat engine

Full name :	 			
UID :				
Date :	 			
Part A. Chent a plot of $T$	orm linear fit on i	it and analyze	the result.]	
	Figure 1: Plot of	of temperature v	ersus volume.	

## 2 Part B. Gay-Lussac's law

[Prese	ent a plot of $T$ versus $P$ . Perform linear fit on it and analyze the result.]
	Figure 2: Plot of temperature versus pressure.
3 I	Part C. Operation of a heat engine
Prese	ent a plot of $T$ versus $V$ . Perform linear fit on it and analyze the result.]
	The mass $m$ is measured to be The temperatures of cold water and hot water a
	, respectively. It takes times of putting the ber into hot water bath until the mass is lifed. When a mass is lifted up to a higher position, it gains gravitation
	tial energy. But energy can neither be created nor destoryed. Indeed, this is energy comes from

4	Discussion
5	References