Quiz Ch19-1

Date: 2/xx /2016

Name: ID#: Sec#:

2.5 mole of ideal gas expand isothermally as shown in the diagram.

P (105 Pa)

1. Calculate the work done by the gas.

6

5

4

3

2

1

0.02 0.04 0.06

V (m3)

1. What is the temperature of the gas?
2. What is the heat absorbed be the gas?
3. If the gas temperature raised by 10 K,

how much work the gas will do for

the same expansion as before (Vi = 0.02 m3,

Vf = 0.06 m3).

(b)

(a)

(c)

(d)