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### Section A

1 (a) region of space area / volume where a mass experiences a force B1  
B1 [2]

(b) (i) force proportional to product of two masses  
force inversely proportional to the square of their separation  
either reference to point masses or separation  $\gg$  'size' of masses M1  
M1  
A1 [3]

(ii) field strength  $= GM / x^2$  or field strength  $\propto 1 / x^2$   
ratio  $= (7.78 \times 10^8)^2 / (1.5 \times 10^8)^2$   
 $= 27$  C1  
C1  
A1 [3]

(c) (i) either centripetal force  $= mR\omega^2$  and  $\omega = 2\pi / T$   
or centripetal force  $= mv^2 / R$  and  $v = 2\pi R / T$   
gravitational force provides the centripetal force  
either  $GMr / R^2 = mR\omega^2$  or  $GMr / R^2 = mv^2 / R$   
 $M = 4\pi^2 R^3 / GT^2$   
(allow working to be given in terms of acceleration) B1  
B1  
M1  
A0 [3]

(ii)  $M = \{4\pi^2 \times (1.5 \times 10^{11})^3\} / \{6.67 \times 10^{-11} \times (3.16 \times 10^7)^2\}$   
 $= 2.0 \times 10^{30} \text{ kg}$  C1  
A1 [2]

2 (a) obeys the equation  $pV = \text{constant} \times T$  or  $pV = nRT$   
 $p$ ,  $V$  and  $T$  explained  
at all values of  $p$ ,  $V$  and  $T$ /fixed mass/ $n$  is constant M1  
A1  
A1 [3]

(b) (i)  $3.4 \times 10^2 \times 2.5 \times 10^3 \times 10^{-6} = n \times 8.31 \times 300$   
 $n = 0.34 \text{ mol}$  M1  
A0 [1]

(ii) for total mass/amount of gas  
 $3.9 \times 10^2 \times (2.5 + 1.6) \times 10^3 \times 10^{-6} = (0.34 + 0.20) \times 8.31 \times T$   
 $T = 360 \text{ K}$  C1  
A1 [2]

(c) when tap opened  
gas passed (from cylinder B) to cylinder A  
work done on gas in cylinder A (and no heating)  
so internal energy and hence temperature increase B1  
M1  
A1 [3]

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Engineering Mechanics Division**

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