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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 M1
force inversely proportional to the square of their separation M1
either reference to point masses or separation \gg 'size' of masses A1 [3]
- (ii) field strength = GM / x^2 or field strength $\propto 1 / x^2$
ratio = $(7.78 \times 10^6)^2 / (1.5 \times 10^6)^2$
= 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 $GMm / R^2 = mR\omega^2$ or $GMm / R^2 = mv^2 / R$
 $M = 4\pi^2 R^3 / GT^2$
(allow working to be given in terms of acceleration) B1
B1 M1
A0 [3]
- (ii) $M = \{4\pi^2 \times (1.5 \times 10^{11})^3\} / \{6.67 \times 10^{-11} \times (3.16 \times 10^7)^2\}$
= 2.0×10^{30} kg C1
A1 [2]
- 2 (a) obeys the equation $pV = \text{constant} \times T$ or $pV = nRT$ M1
 p , V and T explained A1
at all values of p , V and T /fixed mass/ n is constant A1 [3]
- (b) (i) $3.4 \times 10^5 \times 2.5 \times 10^{-3} \times 10^{-6} = n \times 8.31 \times 300$ M1
 $n = 0.34$ mol A0 [1]
- (ii) for total mass/amount of gas
 $3.9 \times 10^5 \times (2.5 + 1.6) \times 10^{-3} \times 10^{-6} = (0.34 + 0.20) \times 8.31 \times T$ C1
 $T = 360$ K 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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**American Society of Civil Engineers.
Engineering Mechanics Division**

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