## Section A

**1 (a)** region of space area / volume      B1
where a mass experiences a force      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 >> 'size' of masses      A1    [3]

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

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

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

**2 (a)** obeys the equation $pV =$ 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)** $3.4 \times 10^7 \times 2.5 \times 10^3 \times 10^{-6} = n \times 8.31 \times 300$      M1
$n = 0.34$ mol      A0    [1]

**(ii)** for total mass/amount of gas
$3.9 \times 10^7 \times (2.5 + 1.6) \times 10^3 \times 10^{-6} = (0.34 + 0.20) \times 8.31 \times T$      C1
$T = 360$ K      A1    [2]

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

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