(1)

(6)

QUESTION 6 FIELDS

Mercury is a relatively small planet with a radius of 2,44 × 106 m. The gravitational field strength at different distances from the centre of Mercury is recorded in the table.

| (x 10 ⁶ m) | 1 /2 (x 10-13 m-2) | gravitational field strength (N-kg ⁻¹) |
|-----------------------|--------------------------|---|
| 2,5 | 1.6 | 3,5 |
| 2,8 | 1,3 | 2,8 |
| 3,2 | 1,0 | 2,1 |
| 3,5 | missing value | 1,8 |
| 4.5 | 0,5 | 1,1 |
| 5,8 | 0,3 | 0,7 |

- 6.1 Calculate the value that is missing from the table.
- 6.2 Plot a graph of gravitational field strength (on y-axis) vs $\frac{1}{r^2}$ (on x-axis) on the graph paper provided on the Answer Sheet.
- 6.3 Use your graph to determine the magnitude of the gravitational field strength on the surface of Mercury. Show all necessary working. (3)
- 6.4 Calculate the gradient of your graph. Show the values that you used on your graph. No unit is required in your answer. (4)
- 6.5 Use an appropriate equation and your gradient calculated in Question 6.4 to determine the mass of Mercury. (4)
- 6.6 A box with a mass of 5 kg is raised through a height of 2 m on the surface of Mercury. How much gravitational potential energy will the box gain?

 [21]

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M Walker

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