Theoretical Competition: 12 July 2011

Student Code

Question Number 1

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ANSWER SHEET

1.1 \( \omega_0 = \)

1.2

1.2.1 The distance from \( \mu \) to \( M \) is

1.2.2 The distance from \( \mu \) to \( m \) is

1.2.3 The distance from \( \mu \) to the centre of mass is

1.3 The angular frequency of \( \mu \) is

1.4 The relative speed of one spacecraft with respect to another is

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