

1 (a) Newton's law of gravitation applies to point masses.

(i) State Newton's law of gravitation.

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(ii) Explain why, although the planets and the Sun are not point masses, the law also applies to planets orbiting the Sun.

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.....[1]

(b) Gravitational fields and electric fields show certain similarities and certain differences. State one aspect of gravitational and electric fields where there is

(i) a similarity,

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.....[1]

(ii) a difference.

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.....[2]