

10 Near the surface of a planet, the gravitational field strength is uniform. The gravitational potential difference between two points that are 10 m apart vertically is 6.0 J kg^{-1} .

How much work is done in raising a mass of 2.0 kg vertically through 2.5 m?

A 1.5 J

B 3.0 J

C 12 J

D 15 J

11 A satellite is in geostationary orbit above the Earth at a height of 36 000 km. The radius of the