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Escape Velocity

The escape velocity is the smallest initial velocity for a mass on the Earth's surface to escape from the Earth's gravitational field. Using the conservation of energy, determine the escape velocity of a mass m . Define M to be the mass of the Earth, and R its radius. The gravitational constant G and the acceleration due to gravity on the surface of the Earth g are related by

$$g = \frac{GM}{R^2}.$$

Write the escape velocity in terms of g and R .

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