Convention Calculations – Horsate?

- Topale Ulatage lative values of AU and EY for a planet
 - AU = planet-sun distance/earth-sun distance
 - EY = planet orbital period/earth orbital period
 - EX Mercury T = 7.6E6 s, R = 5.79E10 m
 - AU = 5.79E10/1.496E11 = 0.387
 - EY = 7.6E6/3.156E7 = 0.241

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- Given that the moon's period about the earth is 27.32 days and that the earth-moon distance is 3.84 x 10⁸ m,
 - Calculate the mass of the earth.
- Solve using K's 3rd Law: T²= 4π²R³/(GM)
 - $M = 4\pi^2 R^3 / (GT^2)$
 - M = 6.01 x 10²⁴ kg