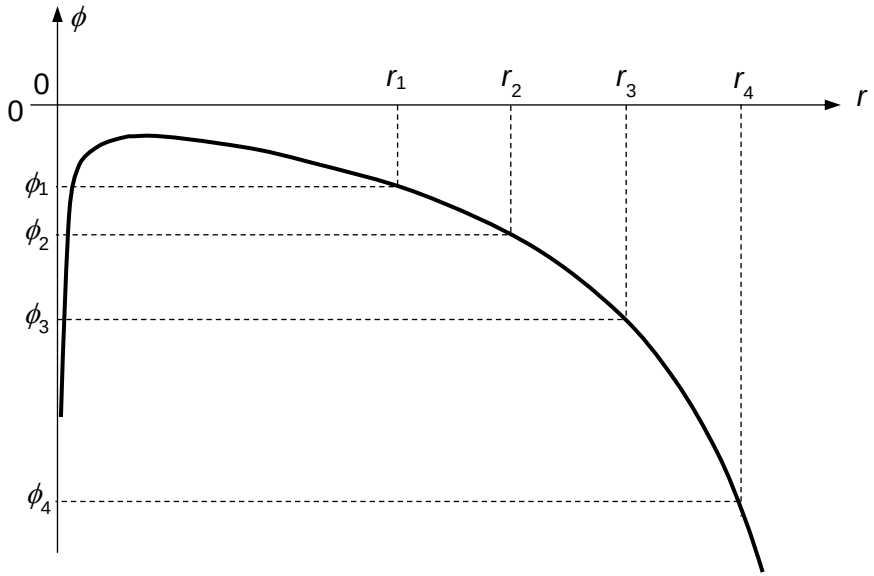
14 The gravitational potential ϕ along the line joining the centres of a planet and its moon varies with the distance r from the centre of the moon as shown.



Which of the following expressions gives a value that is closest to that of the gravitational force acting on a 1 kg mass at a distance of r_2?

A $\dfrac{\phi_1 - \phi_2}{r_2 - r_1}$

B $-\dfrac{\phi_2}{r_2}$

C $\dfrac{\phi_1 - \phi_3}{r_3 - r_1}$

D $\dfrac{\phi_1 - \phi_4}{r_4 - r_1}$