9   A spherical body of radius r has uniform density ρ.

What is the gravitational potential on its surface?

A $-4\pi G\rho r^2$ **B** $-\dfrac{4}{3}\pi G\rho r^2$ **C** $-\dfrac{4}{3}\pi G\rho r$ **D** $\dfrac{4}{3}\pi G\rho r^2$

10   Two planets X and Y travel anticlockwise in circular orbits about a star. The radii of their orbits