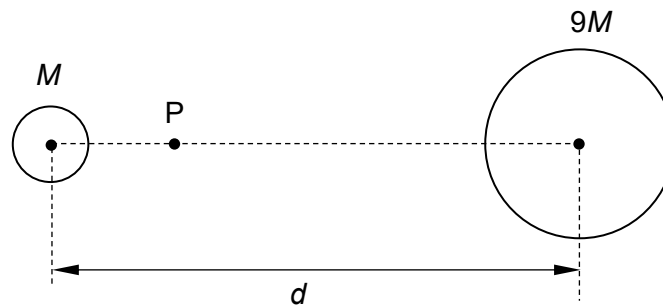10   Two isolated stars, of mass M and $9M$, are separated in space by a distance d between the centres of the stars.

Point P is a point, between the centres of the stars, where the gravitational field strength is zero.

What is the gravitational potential at P?

A $-\dfrac{10GM^2}{d}$ B $-\dfrac{16GM}{d}$ C $-\dfrac{20GM^2}{d}$ D $-\dfrac{32GM}{d}$