12 Two stationary particles of masses M_1 and M_2 are a distance d apart. A third particle, lying on the line joining the particles, experiences no resultant gravitational force.

What is the distance of this particle from M_1?

A $\left(\dfrac{M_1}{M_1+M_2}\right)d$ B $\left(\dfrac{M_2}{M_1+M_2}\right)d$

C $\left(\sqrt{\dfrac{M_1}{M_1+M_2}}\right)d$ D $\left(\dfrac{\sqrt{M_1}}{\sqrt{M_1}+\sqrt{M_2}}\right)d$