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

B $d\sqrt{\dfrac{M_1}{M_2}}$

C $d\sqrt{\dfrac{M_1}{M_1 + M_2}}$

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