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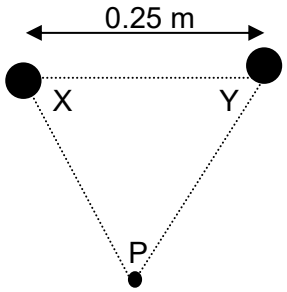
Two point masses, each of 8000 kg are placed 0.25 m apart at points X and Y as shown in the figure below. Points XYP form an equilateral triangle.



What is the gravitational potential energy of a mass of 5.0 kg placed at point P?

A

-1.1×10^{-5} J

B

-2.1×10^{-5} J

C

-4.3×10^{-5} J

D

-8.5×10^{-5} J