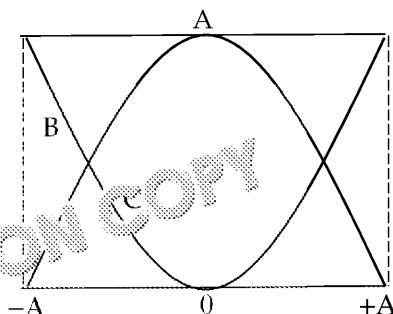


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8. A student notices that the vibration of a washing machine changes with the speed of the drum. At a particular speed, the vibration is maximum. Name the phenomenon.
9. A pizza comes out of an oven at 200°C . The cheese remains hot for some time after it is removed from the oven. Explain why.
10. A student heats two ice cubes under the same conditions. One ice cube takes longer to completely melt. Use the equation $Q = mL$ to explain.
11. In the equation for ideal gases, $pV = nRT$.
(a) State the unit of V
(b) State the quantity represented by R
12. A fixed mass of gas is contained in a sealed syringe at constant temperature. Use the kinetic theory to explain what happens to the pressure of the gas as its volume is decreased.
13. Which one of these options correctly completes this sentence?
The gravitational force between two masses is proportional to
A the magnitude of one mass only
B the magnitude of both masses only
C the magnitude of both masses and proportional to the square of the distance between them
D the magnitude of both masses and inversely proportional to the square of the distance between them

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