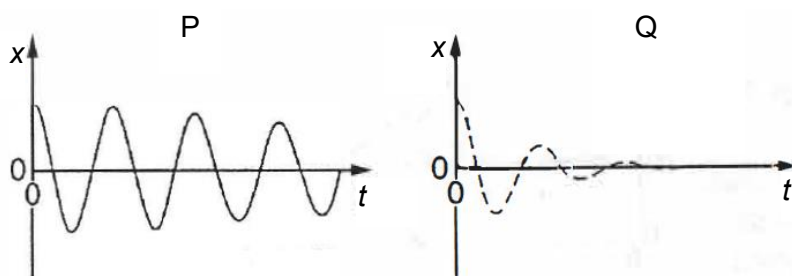


- 11 Two oscillating systems P and Q are of the same natural frequency. They are given the same initial displacement before being released. The graphs below show the variation with time  $t$  of their displacement  $x$ .



P and Q are then subjected to driving forces of the same constant amplitude and of variable frequency  $f$ .

Which graph best represents the variation with  $f$  of the amplitude  $A$  of P and Q?

