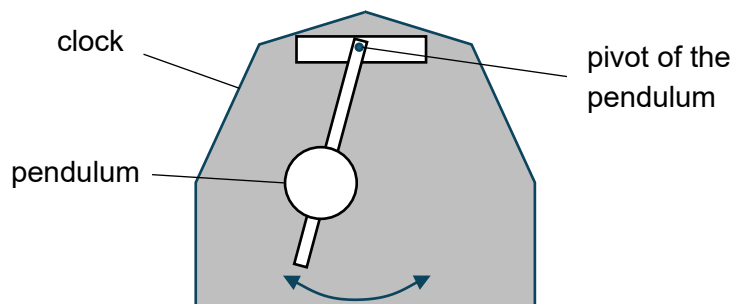
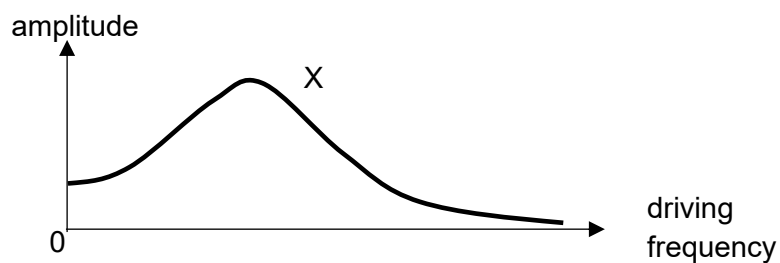


- 14 The amplitude of oscillations of a pendulum in a clock below is observed to decay with time. To maintain the amplitude, an electric motor is attached to the pivot of the pendulum to drive it periodically.



As the frequency f of the periodic force provided by the motor varies, the amplitude of oscillations vary with f as shown.



Over the years, the friction in the pivot increased.

Which of the following would be the new graph Y showing the variation of amplitude with f ?

