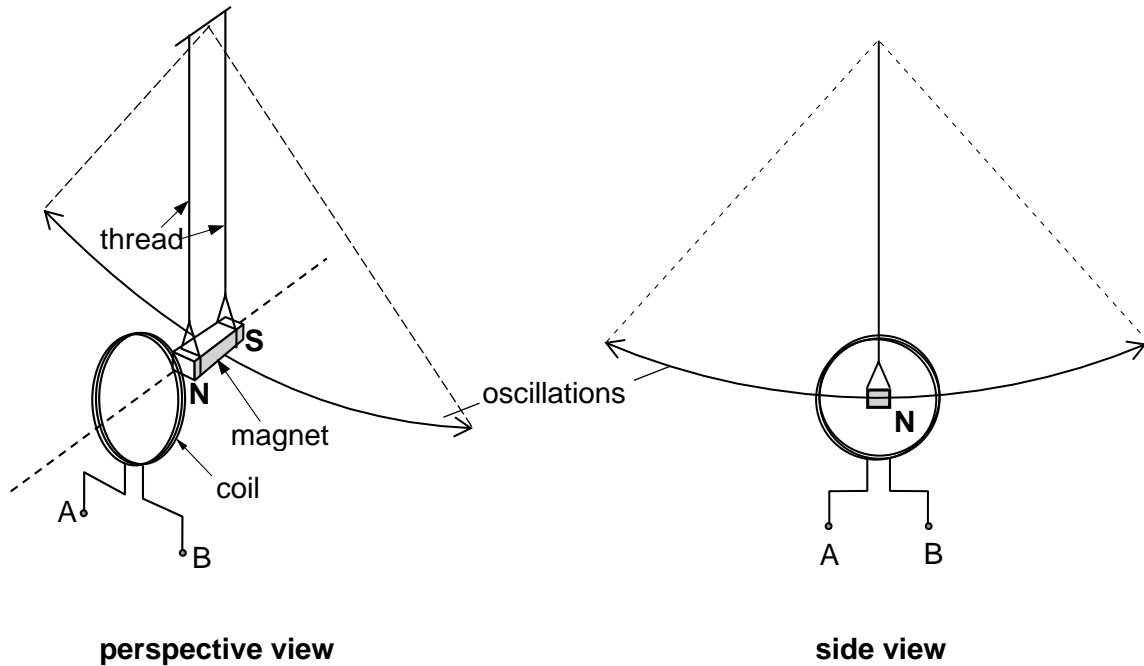


22 A magnet is suspended using threads. It swings like a pendulum as shown in the diagrams below.

The north pole of the magnet passes near a fixed coil at the bottom of its swing. The coil's plane is parallel to the plane of oscillation of the magnet.



A resistor is connected in parallel across terminals A and B.

Which of the following graphs best shows the variation with time t of the potential difference V across the resistor?

