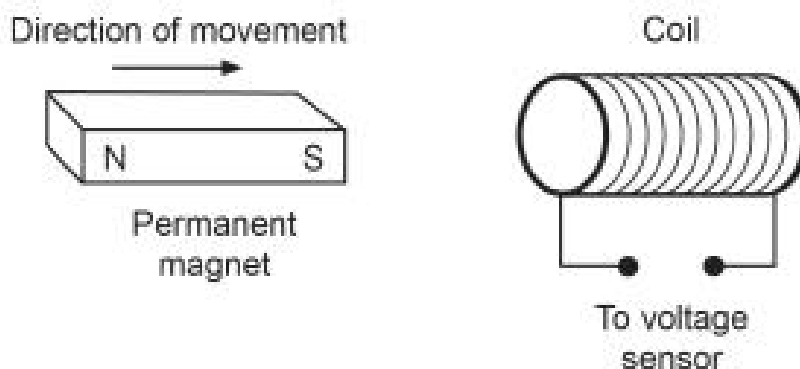


Question 3**(4 marks)**

A permanent magnet is moved toward a coil at a constant velocity causing an emf to be induced across the ends of the coil.



Using an appropriate equation from the Formulae and Data booklet, explain why a larger emf would be detected if the magnet was moved at a greater velocity toward the coil.
