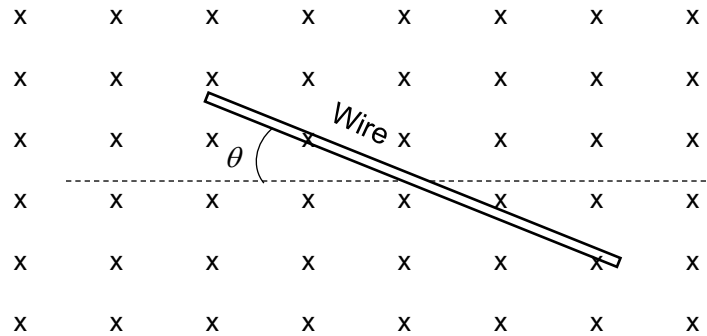


A wire carrying a constant current is placed in the plane of the paper, and is rotated about its centre so that it makes an angle θ with its initial position. It is completely immersed in a constant magnetic field which is directed into the paper, as shown below:



Which of the following graphs shows how the magnitude of the magnetic force F acting on the rod varies with θ ?

