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magnetism. Problem 1. Two long straight wires carrying the same current  $I$  and separated by a distance  $r$  exert a force  $F$  on each other. The current is increased to  $4I$  and the separation is reduced to  $r/6$  .

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Q.1. Biot-Savart law indicates that the moving electrons (velocity  $v$ ) produce a magnetic field  $B$  such that (a)  $B \perp v$ .(b)  $B \parallel v$ .(c) it obeys inverse cube law.(d) it is along the line joining the electron and point of observation. Answer Answer: a (a) Magnetic field is given byWhere  $n$  is the direction of  $B$  which...

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