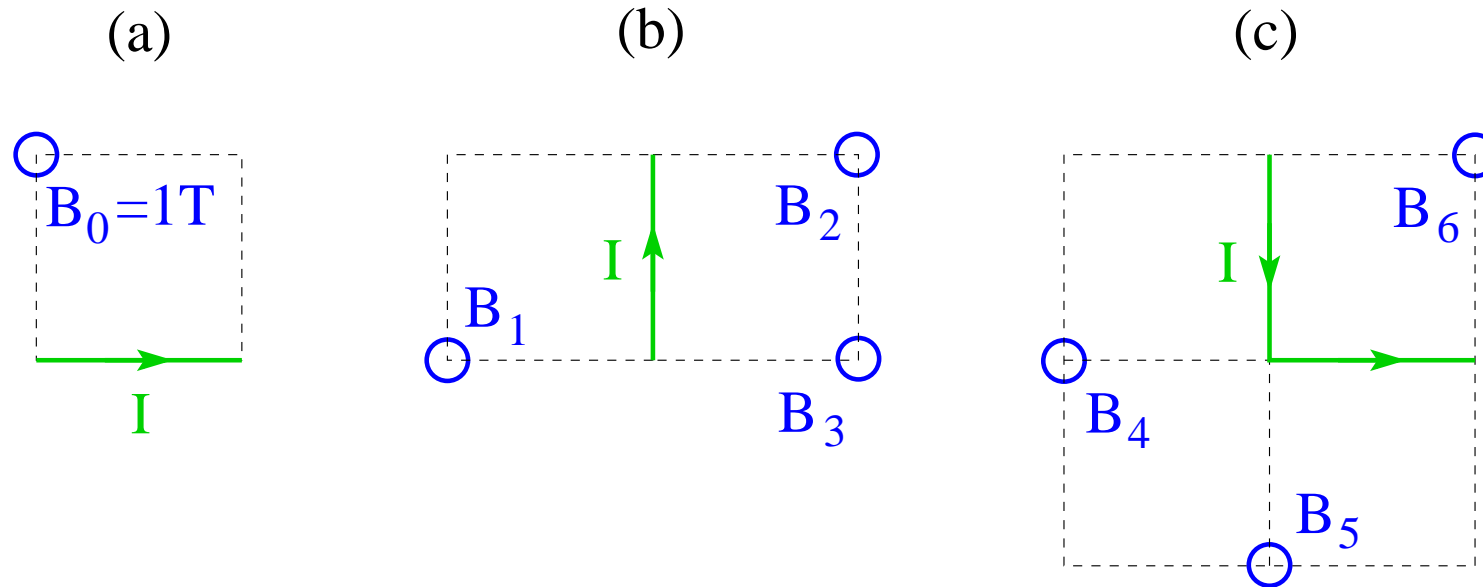


Magnetic Field Application (5)



If the current I in (a) generates a magnetic field $B_0 = 1T$ pointing out of the plane

- find magnitude and direction of the fields B_1, B_2, B_3 generated by I in (b),
- find magnitude and direction of the fields B_4, B_5, B_6 generated by I in (c).

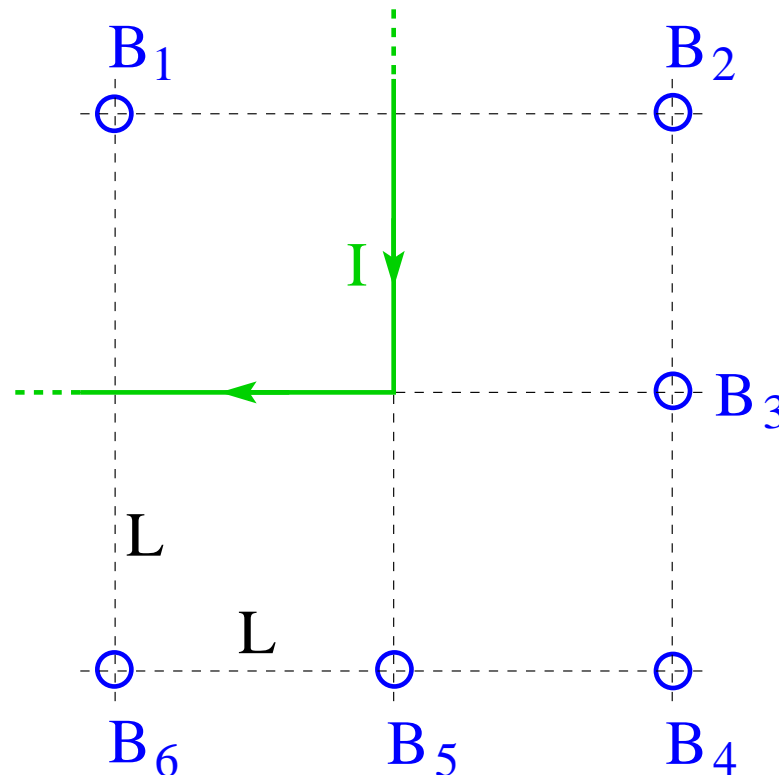


Magnetic Field Application (6)



A current-carrying wire is bent into two semi-infinite straight segments at right angles.

- (a) Find the direction (\odot , \otimes) of the magnetic fields B_1, \dots, B_6 .
- (b) Name the strongest and the weakest fields among them.
- (c) Name all pairs of fields that have equal strength.



Magnetic Field Application (2)



The currents I_1, I_2 in two long straight wires have equal magnitude and generate a magnetic field \vec{B} as shown at three points in space.

- Find the directions (\odot , \otimes) for I_1, I_2 in configurations (a) and (b).

