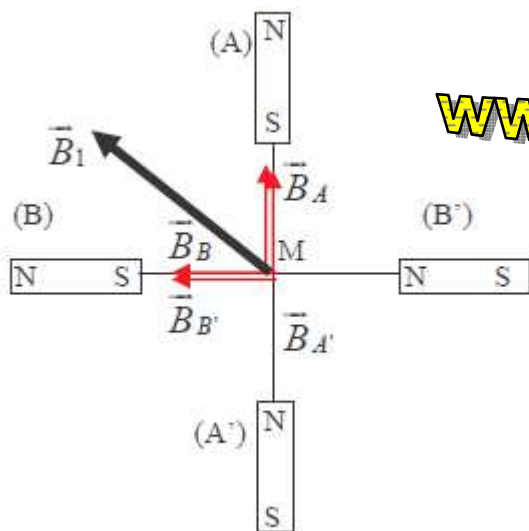


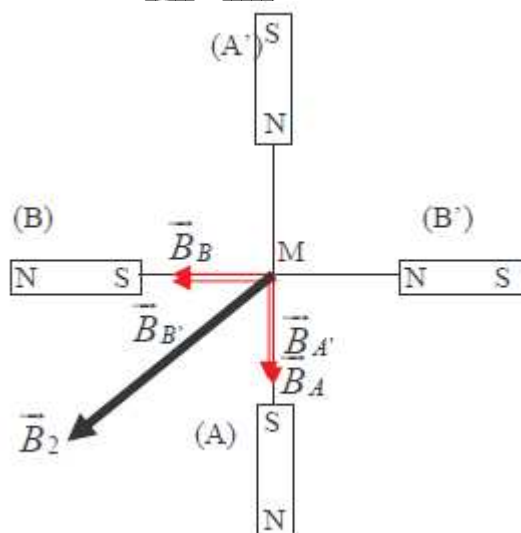
حل التمرين 05

.1

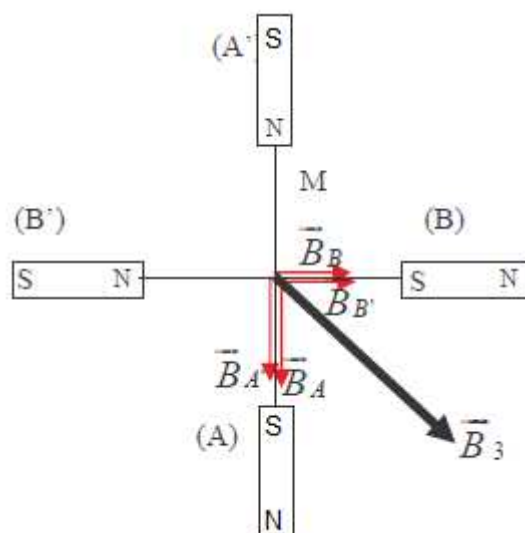


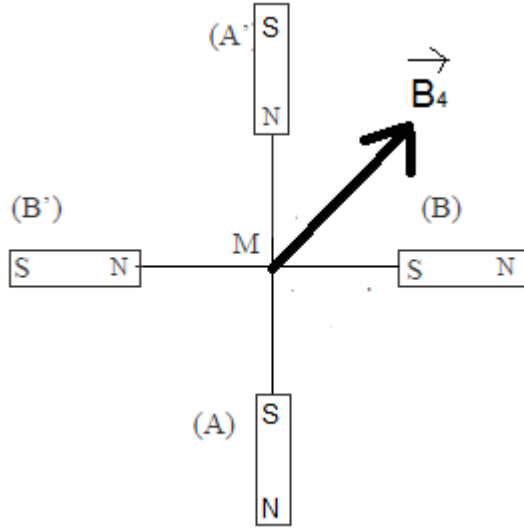
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.2



.3





5. شدة المجال المغناطيسي الكلي هي نفسها في كل الحالات :

$$\vec{B} = \vec{B}_A + \vec{B}_{A'} + \vec{B}_B + \vec{B}_{B'} \Rightarrow \vec{B} = 2\vec{B}_A + 2\vec{B}_B$$

$$B^2 = (2B_A)^2 + (2B_B)^2$$

$$B_A = B_B \Rightarrow B^2 = 8B_A^2 \Rightarrow B = 2\sqrt{2} B_A$$

$$B = 2\sqrt{2} \times 2.10^{-2} = 5,65.10^{-2} T$$