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(Thalès de Milet)

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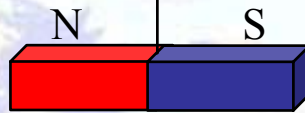
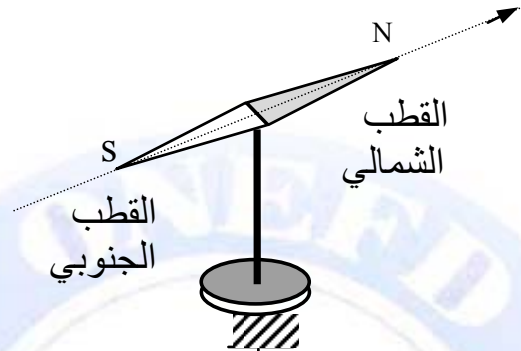
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<http://www.onefd.edu.dz>

جميع الحقوق محفوظة ©

" " (N) " (S)

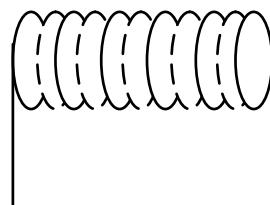


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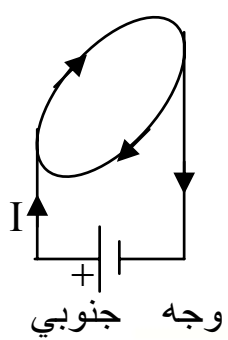
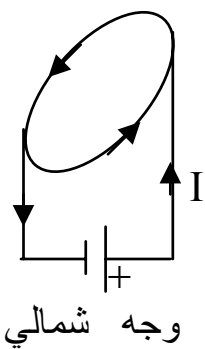
$$\frac{\ell}{r} \leq 1$$



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$$\frac{\ell}{r} > 1$$



-2-1 :

-3-1 :

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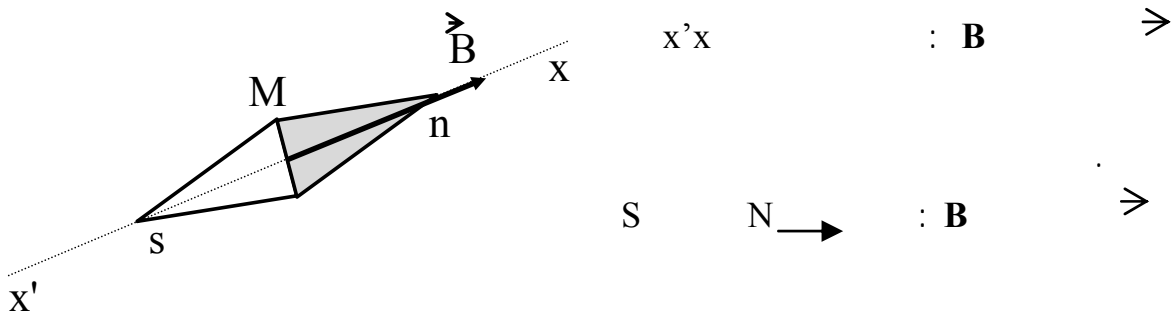
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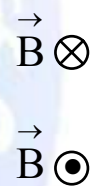
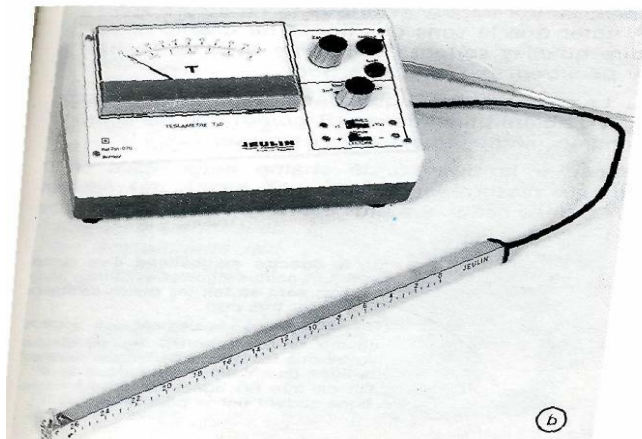
/ :

.1819 (ERSTED)

-4-1 :



(TESLA)

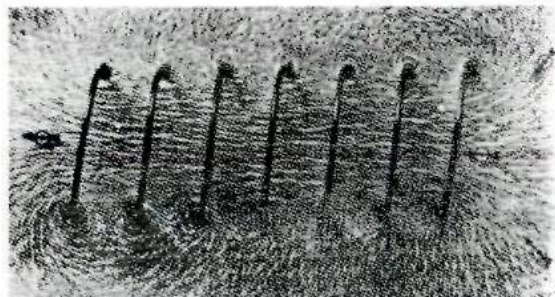
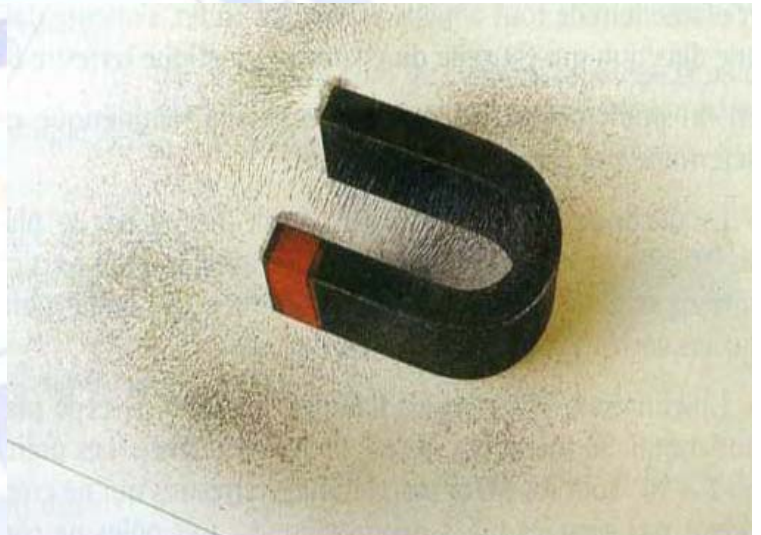


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(T)	
5.10^{-5}	
0,1 0,001	
1 GT 100 MT	

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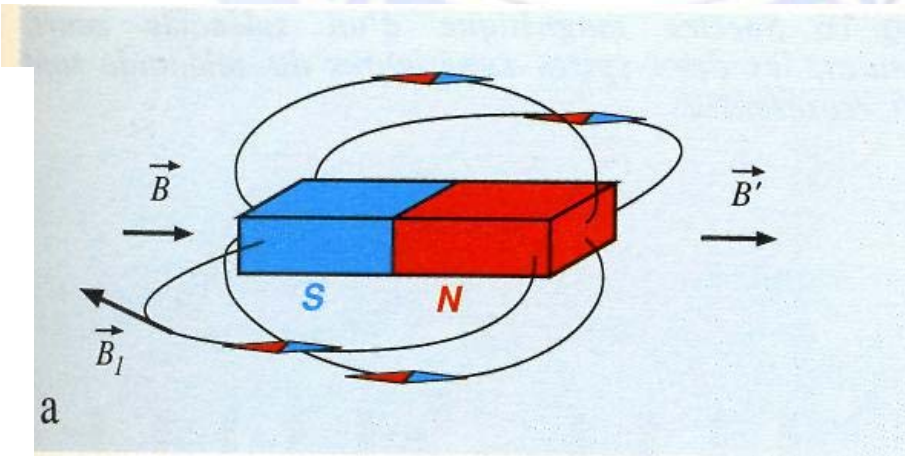
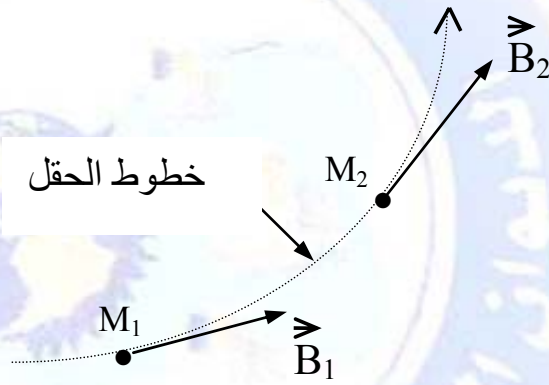


-3 _____ :

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خطوط الحقل

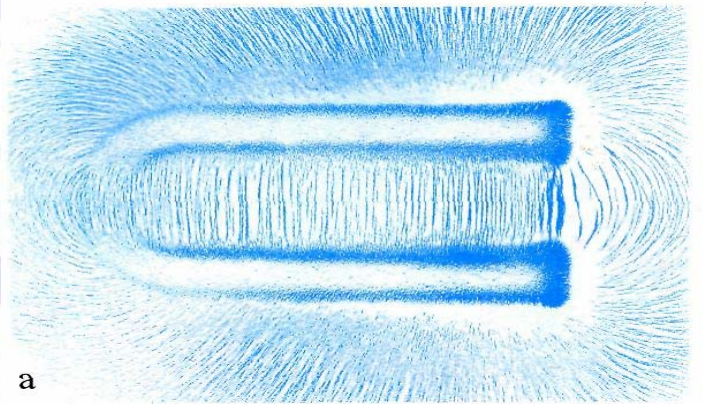
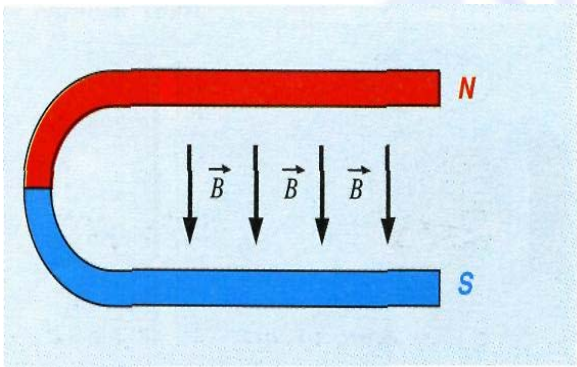


-3 _____ :

U

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الحقل المغناطيسي المنتظم هو كل حقل في كل نقطة من فضاءه تكون له نفس المنحى و نفس الجهة ونفس الشدة كما أنّ خطوطه تكون متوازية.



-4 _____ :

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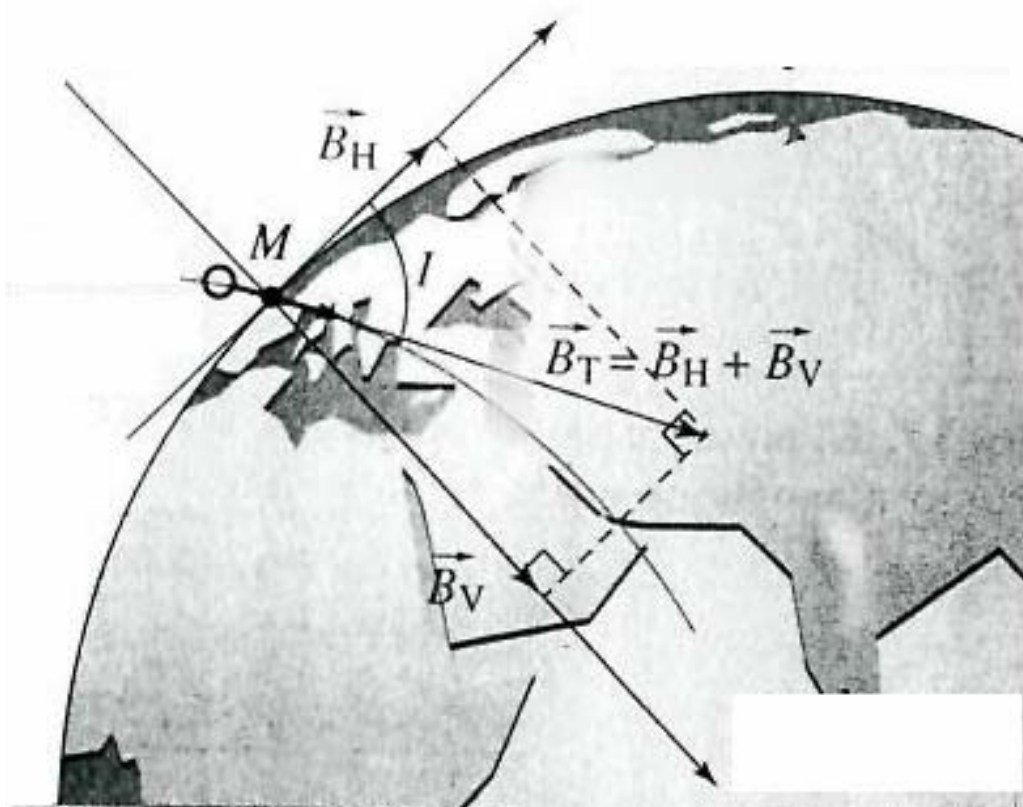
B_H

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°10

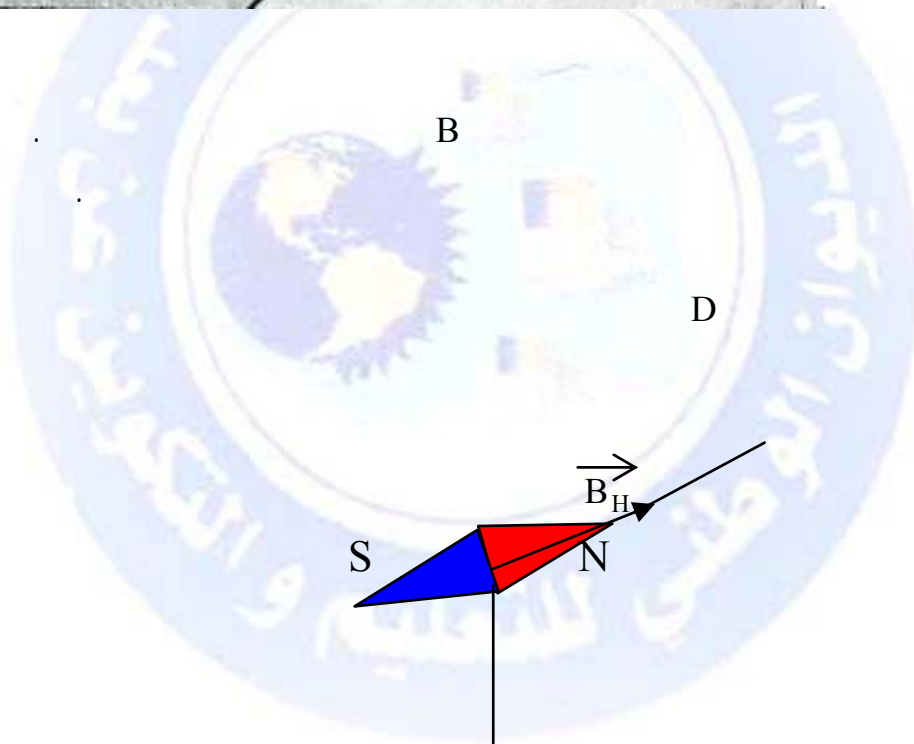
\vec{B}_H

B_V



$$B_H = : \\ 2.10^{-5} T \\ :$$

$$B_T = \vec{B}_H + \vec{B}_V \rightarrow$$



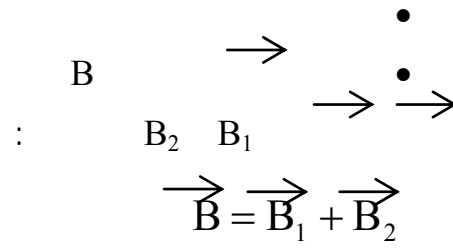
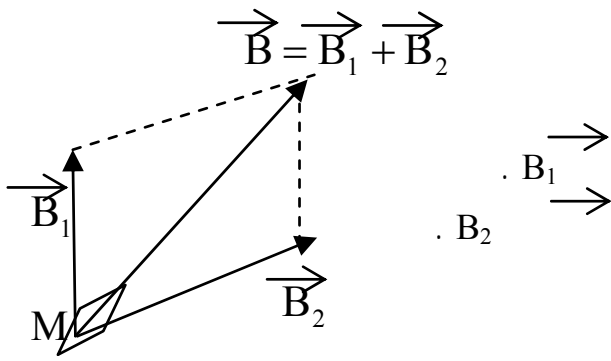
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M

M

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. M



$$B = \sqrt{B_1^2 + B_2^2 + 2B_1 \cdot B_2 \cdot \cos(\angle B_1, B_2)}$$

-6 :

km

900

1832 (GAUSS)

-1-6 :

(corpusculaires)

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-2-6 :

:(I.R.M : Imagerie par Résonance Magnétique)

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RMI

منها

6350





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2: _____

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3: _____

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M

1,5 mT

10 cm

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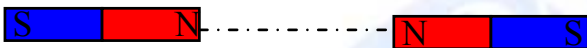
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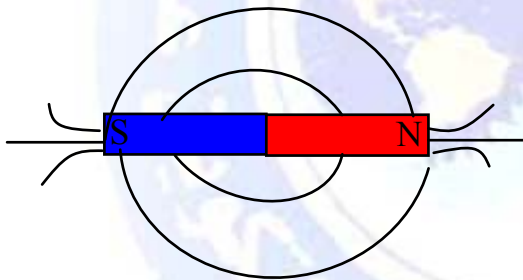
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/4

الحالة - ب



:5 _____

:6 _____

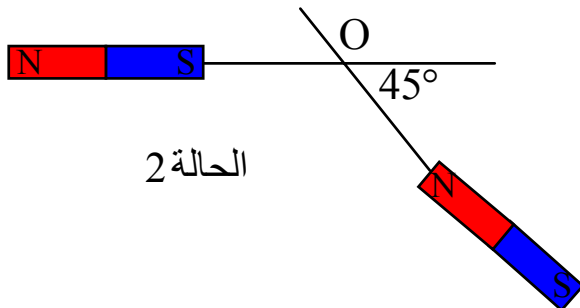
O

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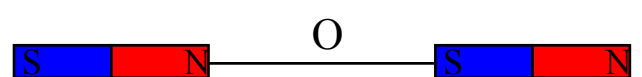
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. B₁

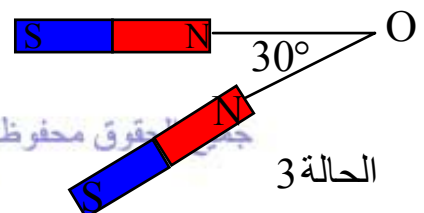
/2



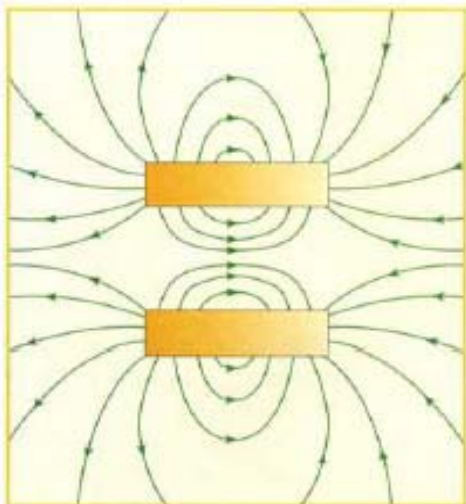
الحالة 2



الحالة 1



الحالة 3



7: _____

/1

/2

B

/3



:1_____

(détecteur) -

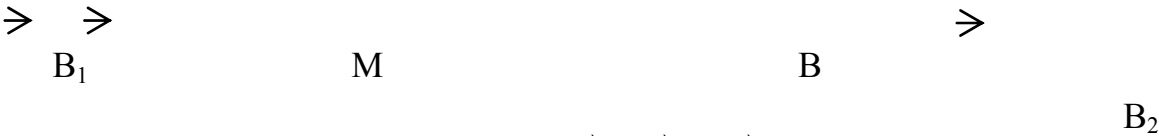
(Tesla) -

:2_____

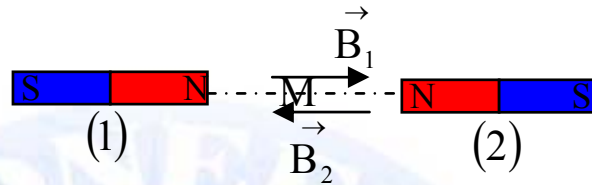
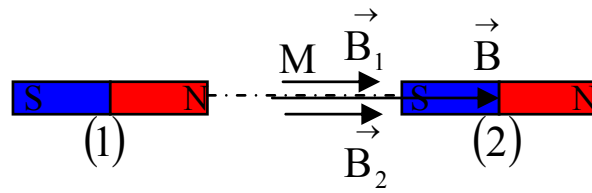
:3_____

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$$\vec{B} = \vec{B}_1 + \vec{B}_2$$



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: _____

$$\vec{B}_2 > \vec{B}_1 > \vec{B}$$

$$B = B_1 + B_2 \Rightarrow B = 1,5 + 1,5 = 3 \text{ mT}$$

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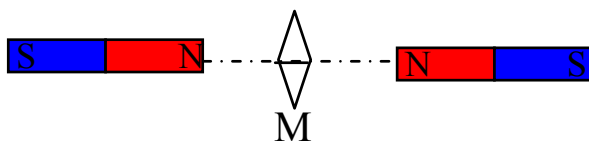
$$\vec{B}_2 > \vec{B}_1$$

$$B = 0 \text{ T} \Leftarrow$$



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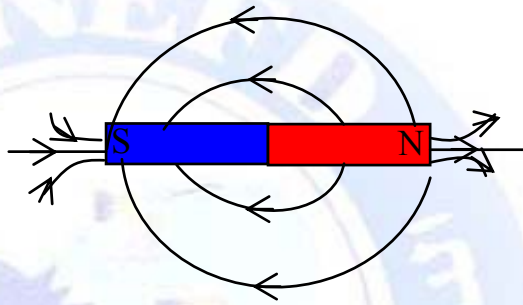


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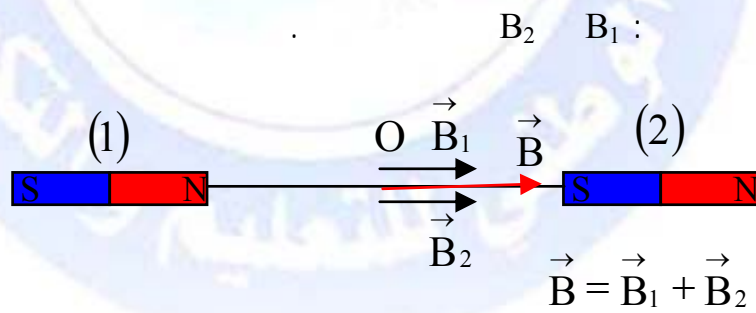
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5:_____



6:_____

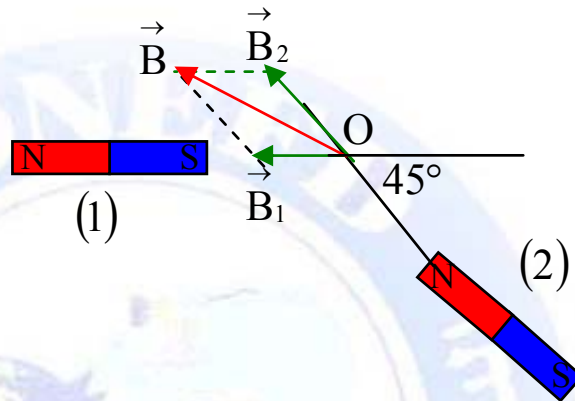
1:_____



$$B_1 = B_2$$

O

$$B = B_1 + B_2 = 2 B_1$$

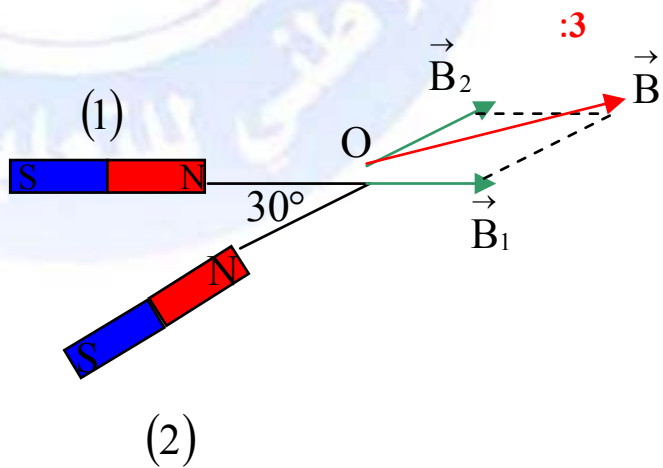


$$B = \sqrt{B_1^2 + B_2^2 + 2B_1 \cdot B_2 \cdot \cos 45}$$

$$B = 1,85 B_1 \Leftarrow$$

O

$$B_1 = B_2 :$$



$$B = \sqrt{B_1^2 + B_2^2 + 2B_1 \cdot B_2 \cdot \cos 30}$$