

مادة الرياضيات (السنة الأولى من التعليم المتوسط)

الإنشاءات الهندسية:



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⊙ 536 535

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" 1406-1332

808-732

....."

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347-427
305 (6:) ,

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255-315

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-2

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.1

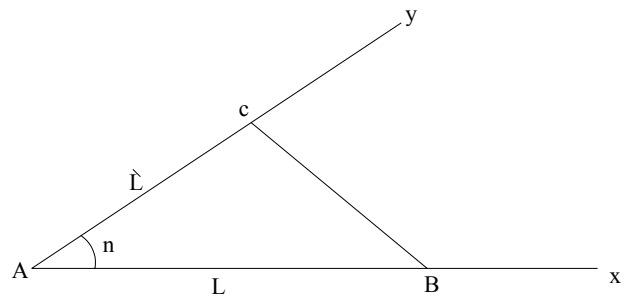
n : BÂC AC=L', AB=L : ABC

[AB] [Ax n : [Ax , Ay]

AC=L' : [AC] [Ay AB=L :

ABC

ABC

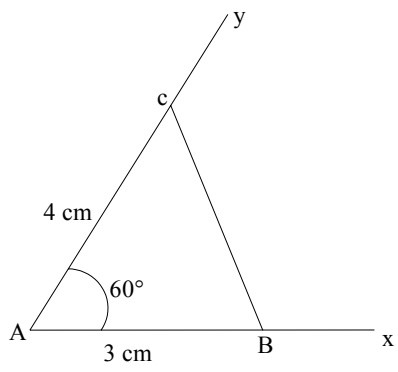


$\pi > n$



ABC xAy=60°, AB=3 cm , AC=4 cm

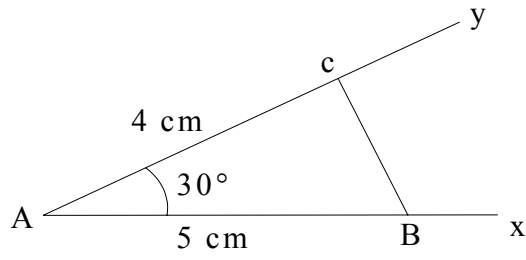
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ABC $\angle A = 30^\circ$, $AB = 5 \text{ cm}$, $AC = 4 \text{ cm}$

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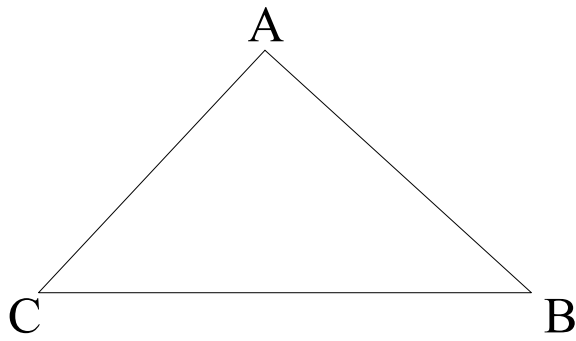
.2

$L = AB$, $AC = L'$, $BC = L$

ABC

L, L, L

$L > L > L$



⋮

$BC = L$

[BC]

-

L

B

-

L

C

-

A

ABC

ABC

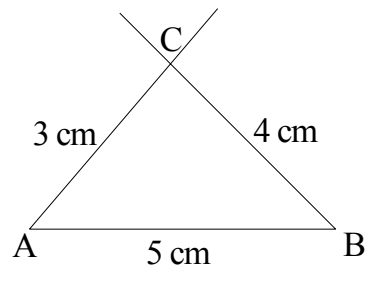


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$L < L + L$:

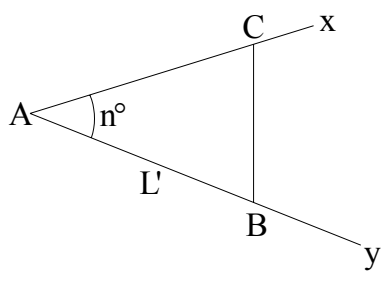
AC=3 cm , BC=4 cm, AB=5 cm ABC

⋮ ○
⋮ -



⋮ **.3**

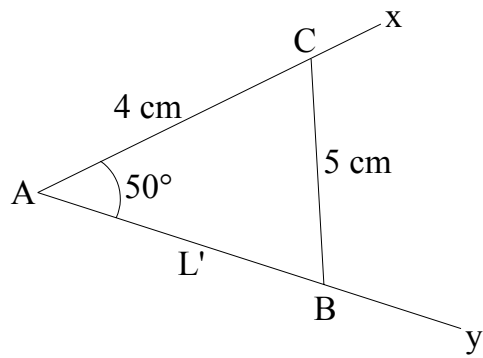
(L,L') AB=L', BC = L :
BAC= n° : -



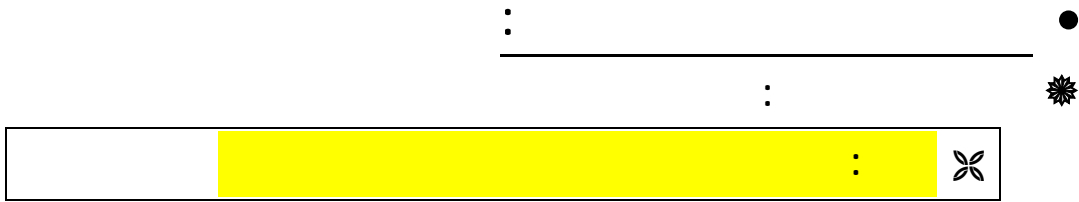
⋮ ○

n BAC : -
AB=L' [AB]: [Ay -
[Ax : c

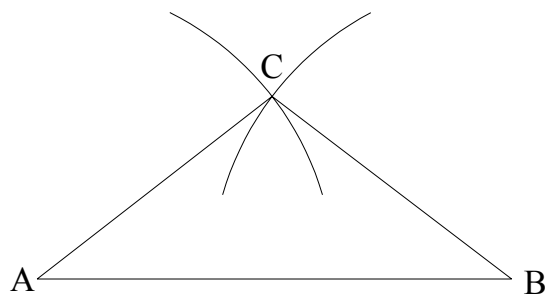
L B

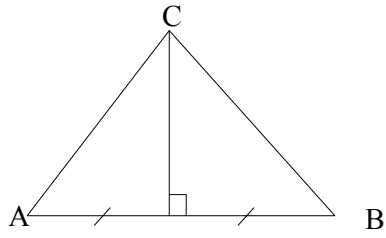


$\therefore \triangle ABC$
 $\angle A = 50^\circ, AB = 4 \text{ cm}, BC = 5 \text{ cm}$

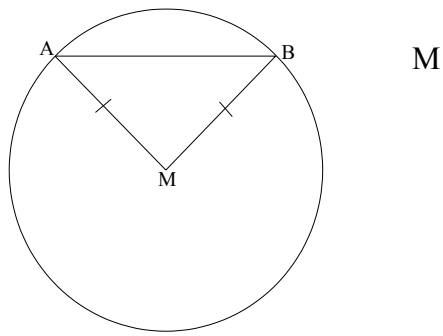


A [AB]
 B
 . C ABC B, C C, A

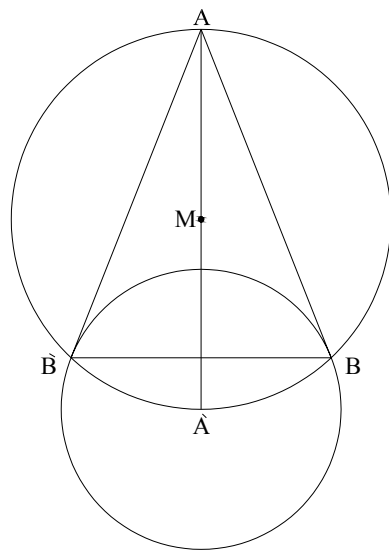




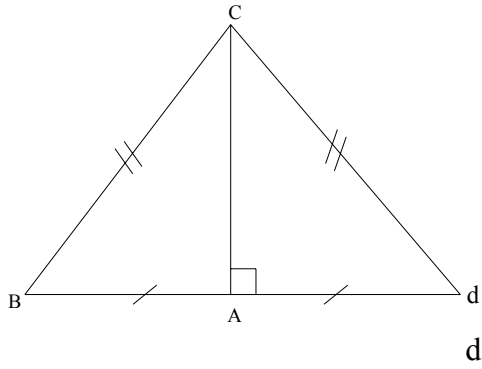
$\frac{\dots}{\dots} \circ$
 \vdots -
 [BC] -
 \vdots -
 A -
 A,B,C -



$\frac{\dots}{\dots} \circ$
 \vdots -
 (d) -
 A,B : -
 A M -

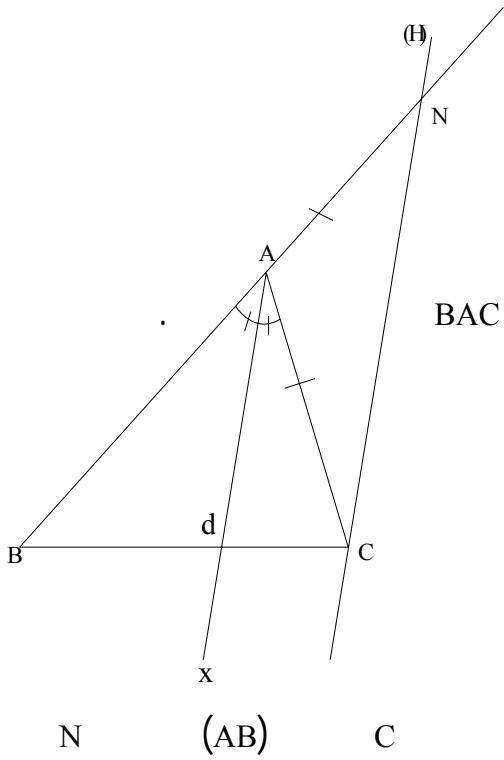


$\frac{\dots}{\dots} \circ$
 \vdots -
 R M (d) -
 A ,A : -
 R A -
 B,B (d) R > R : -
 B ,B, A -
 ABB



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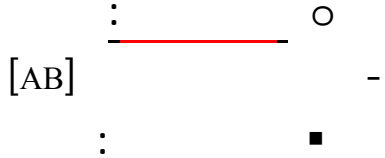
A ABC -
 AB = 1/2 BC -
 C
 B
 (AC) B -
 CBd



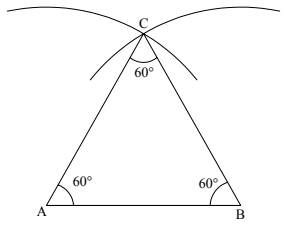
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[Ax, ABC -
 d [BC]

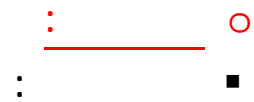
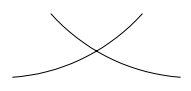
N (AB) C [Ax (H) -
 ANC



AB B A



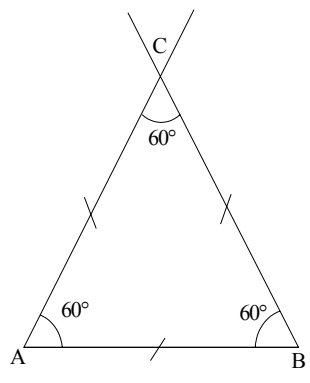
BC=AC=AB :
ABC



- [AB] .1
- 60° B .2
- 60° A .3

ABC C

BC=AC= AB:

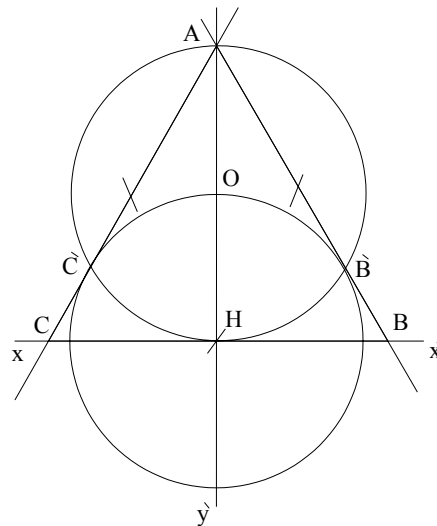


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- . $A \in (yy')$ H $(yy'), (xx')$.1
- . AH
- OH (AH) (d) .2
- C', B' (d) , H .3
- B (xx') (AB')
- C (xx') (AC')

. ABC



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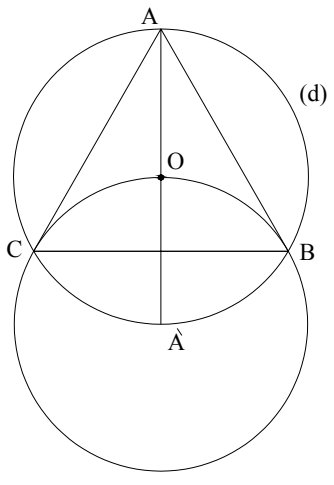
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[AA'] [Ao] (d) -1

'A

C, B (d) -2

ABC C, B, A -3

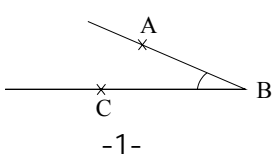


∴ *

∴

∴ .1

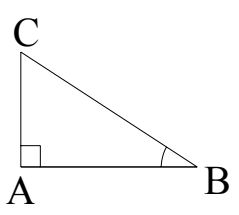
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-1-

ABC, [AB]

∴



C

A

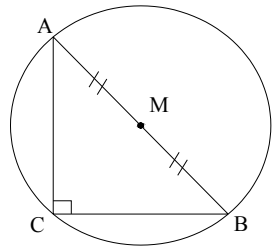
ABC -

(AB) -

ABC

()

.2



-1-

M [AB]

M

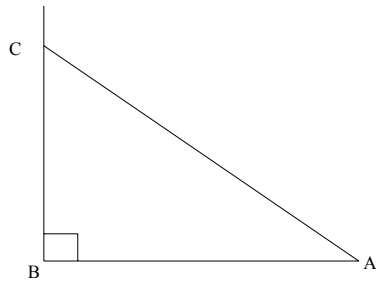
A, B

ABC

B

.C

.3



AC, [AB]

ABC

B

[AB]

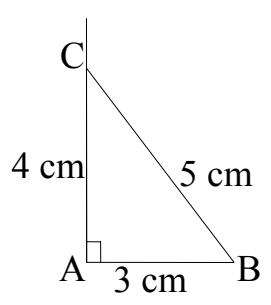
A

.C

ABC

A,C

: .4



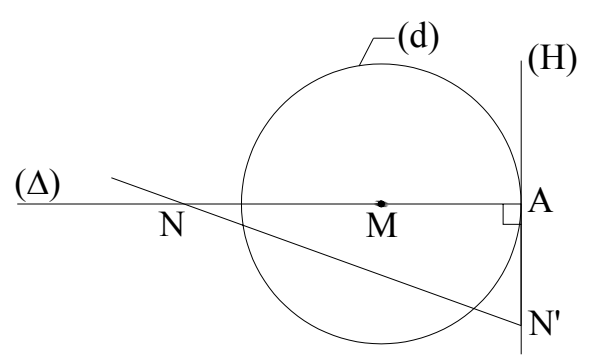
: C,B,A
 . BC= 5 cm, AC= 4 cm ,AB= 3 cm

. A ABC C,B,A : -

: .5

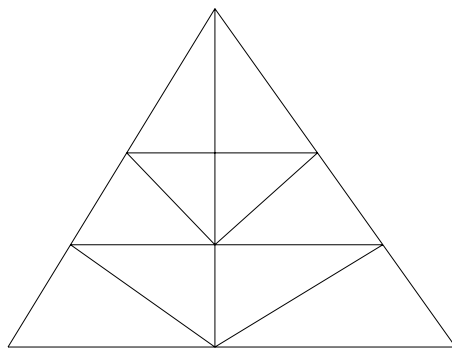
(d) -
 (H) A -
 - A (d) (Δ) -
 . (Δ),(H)

.A A N N' (H) N' (Δ) N
 (A N') , (A N) :





- (H) . (H) , B,A .1
- (H) A [BC] . ABC .2
- C',B',A' ABC .3
- . .4
- 60° A 3 cm,4 cm .5
- B=130° ,C=70° CB= 5 cm . ABC .6
- B=30° ,C=45° CB= 5 cm . ABC .7
- . A .8
- :
- A -
- A -
- .9
- .10
- .11



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