

Τράπεζα θεμάτων ΕΠΑΛ  
Γεωμετρία  
Α΄ Λυκείου



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Στέλιος Μιχαήλογλου Πατσιμάς Ανδρέας Πατσιμάς Δημήτρης

2\_8698

$\widehat{\mu} = \widehat{\mu} = \dots = 5\text{cm}, \dots = 4\text{cm}.$   
 )  
 )  $\mu$  ( 15)  
 ) ( 10)

2\_8710

$AB = \dots = 14\text{cm}, \dots = \dots$   
 $\mu$   
 )  $\mu$  ( 10)  
 ) ( 10)  
 )  $= 5,3\text{cm}$   $\mu$  ( 10)  
 ( )

2\_8734

$\mu = 4$   $\mu$  ( 5)  
 $\mu = 5,$   $\mu$  ( 5)  
 ) ( 15)

2\_8763

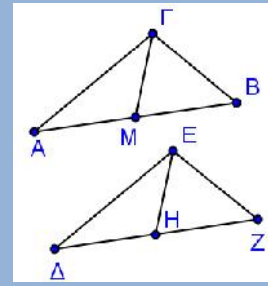
$AM = MB$  ( 5)  
 $1,5\text{cm},$   $\mu$  ( 8)  
 $4\text{cm},$   $\mu$  ( 12)

2\_8768

$AM = 2\text{cm}$   $\mu$  ( 5)  
 $\widehat{AMK}$  ( 10)  
 $5,3\text{cm},$   $\mu$  ( 10)

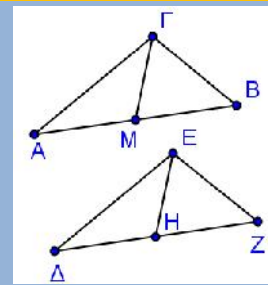
4\_8325

$AB = \Delta Z, \widehat{B} = \widehat{Z} \quad \widehat{A} = \widehat{\Delta}.$   
 $\mu$   
 )  
 )  
 )  $\Gamma M = EH.$   
 ( 10)  
 ( 10)  
 ( 5)



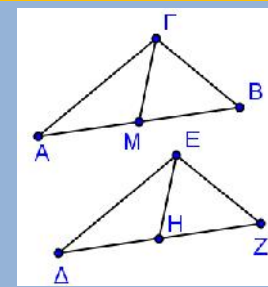
4\_8328

$A\Gamma = \Delta E \quad B\Gamma = ZE.$   
 $\mu \quad \widehat{\Gamma} = \widehat{E}.$   
 $\mu$   
 )  
 )  
 )  $\Gamma M = EH.$   
 ( 10)  
 ( 10)  
 ( 5)



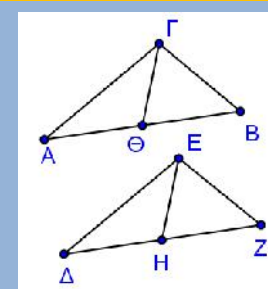
4\_8331

$A\Gamma = \Delta E \quad B\Gamma = ZE.$   
 $\mu \quad AB = \Delta Z.$   
 $\mu$   
 )  
 )  
 )  $\Gamma M = EH.$   
 ( 10)  
 ( 10)  
 ( 5)



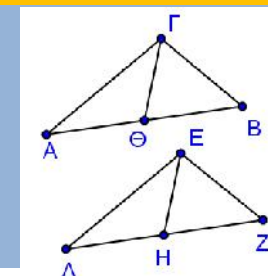
4\_8334

$A\Gamma = \Delta E \quad B\Gamma = ZE.$   
 $\mu \quad AB = \Delta Z,$   
 $\mu$   
 )  
 )  $\widehat{\Gamma} = \widehat{E}.$   
 $\mu$   
 )  
 ( 10)  
 ( 10)  
 ( 5)



4\_8337

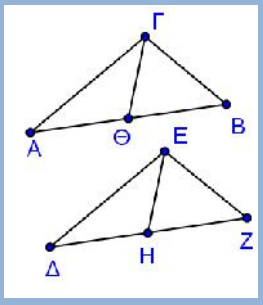
$\widehat{\Gamma} = \widehat{E}.$   
 $\mu \quad A\Gamma = \Delta E, B\Gamma = ZE$   
 $\mu$   
 )  
 )  $\Delta \widehat{\Gamma} \Theta \quad \Delta \widehat{E} H$   
 $\mu$   
 )  
 ( 10)  
 ( 5)



) . ( 5)

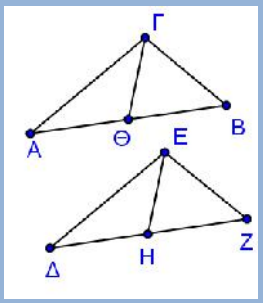
**4\_8340**

$B\Gamma = ZE$       $\hat{\Gamma} = \hat{E}$       $A\Gamma = \Delta E$ ,  
 $\mu$       $\mu$       $\mu$   
 )      $\Delta\hat{\Gamma}\Theta$       $\Delta\hat{E}H$      .  
 )     ( 5)  
 )     ( 10)  
 )     ( 5)  
 )      $\Gamma\Theta = EH$ .     ( 5)



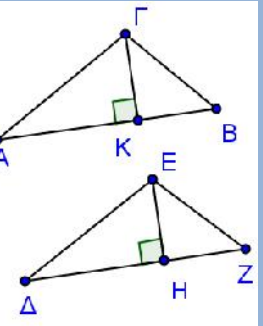
**4\_8343**

$\hat{\Gamma} = \hat{E}$       $A\Gamma = \Delta E, \hat{A} = \hat{\Delta}$   
 $\mu$       $\mu$   
 )      $\Delta\hat{\Gamma}\Theta$       $\Delta\hat{E}H$      .  
 )     ( 5)  
 )     ( 10)  
 )      $\Gamma\Theta = EH$ .     ( 10)



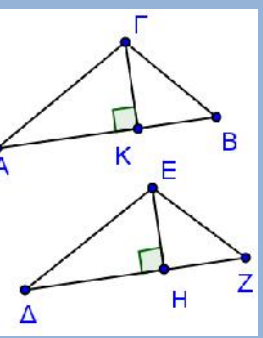
**4\_8346**

$\hat{A} = \hat{\Delta}$       $A\Gamma = \Delta E, AB = \Delta Z$   
 )     .  
 )     ( 10)  
 )     ( 10)  
 )      $\Gamma K = EH$ .     ( 5)



**4\_8349**

$AB = \Delta Z$       $B\Gamma = EZ$       $A\Gamma = \Delta E$ ,  
 )     .  
 )     ( 10)  
 )     ( 10)  
 )      $\Gamma K = EH$ .     ( 5)



4\_8352

$AB = \Delta Z.$

$\hat{A} = \hat{\Delta}, \hat{B} = \hat{Z}$

) ( 10)

) ( 10)

)  $AK = \Delta H.$  ( 5)

4\_8355

$\hat{B} = \hat{Z}.$

$\Delta\Gamma = \Delta E$

$AK = \Delta H.$

) ( 10)

)  $\Gamma K = EH.$  ( 5)

) ( 10)

4\_8358

$\hat{A} = \hat{\Delta}, \hat{B} = \hat{Z}.$

$\Gamma K = EH.$

) ( 10)

) ( 5)

) ( 10)

4\_8376

$\Gamma$

$\mu$

$\mu$

$AB = A\Gamma.$

)  $\hat{B} = \hat{\Gamma}.$  ( 8)

)  $\hat{A}$  ( 10)

) ( 7)

4\_8379

$\Gamma$

$\mu$

$\mu$

$AB = A\Gamma = 10\text{cm}.$

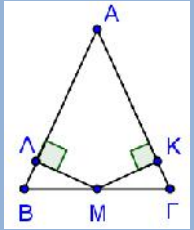
)  $\hat{B} = \hat{\Gamma}.$  ( 8)

) ( 10)

)  $B\Lambda = 3\text{cm}$   $K\Gamma = 3\text{cm}$   
 $\mu$  . ( 7)

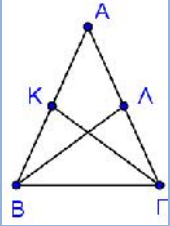
**4\_8383**

$\Gamma$   $\mu$   $AB = A\Gamma = 10\text{cm}$  .  
 $\mu$  .  
 )  $\widehat{B} = \widehat{\Gamma}$  . ( 8)  
 ) . ( 10)  
 )  $B\Lambda = 2\text{cm}$   $K\Gamma = 2\text{cm}$   
 $A\Lambda = AK$  . ( 7)



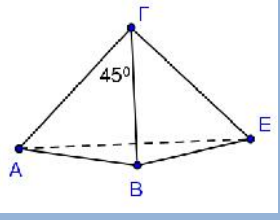
**4\_8390**

$\Gamma$   $\mu$   $AB = A\Gamma = 10\text{cm}$  .  
 $\mu$   $\mu$  .  
 )  $KB = \Lambda\Gamma$  . ( 8)  
 ) . ( 10)  
 )  $B\Lambda = 7,4\text{cm}$   $\Gamma\text{K} = 7,4\text{cm}$   
 $\widehat{BK\Gamma} = \widehat{B\Lambda\Gamma}$  . ( 7)



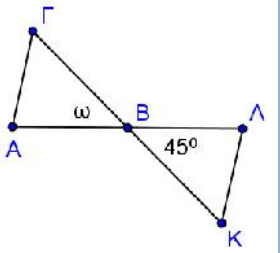
**4\_8417**

$\mu$   $A\Gamma = \Gamma E$  ,  $AB = BE$   
 $\widehat{A\Gamma B} = 45^\circ$  .  
 ) . ( 12)  
 )  $\widehat{B\Gamma E} = 45^\circ$  . ( 6)  
 )  $\mu$   $\widehat{A\Gamma E}$  . ( 7)



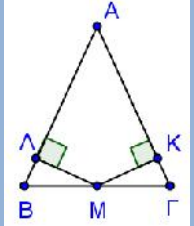
**4\_8420**

$\mu\mu$   $\mu$   $\mu$   $\mu$   $\mu$  .  
 $\widehat{K\Lambda B} = 45^\circ$   $B\Gamma = BK$  ,  $AB = B\Lambda$  .  
 )  $= 45^\circ$  . ( 8)  
 ) . ( 12)  
 )  $= 9\text{cm}$   $\mu$  . ( 5)



**4\_8426**

$\Gamma$   $\mu$   $\widehat{B} = \widehat{\Gamma}$  .  $\mu$   
 )  $AB = A\Gamma$  . ( 8)  
 )  $\mu$  . ( 10)  
 )  $\mu$  . ( 7)



**4\_8429**

$\Gamma$   $\mu$   $\hat{B} = \hat{\Gamma}$ .  
 )  $\mu$   $\hat{A}$  . ( 6)  
 )  $\mu$  . ( 7)  
 )  $\mu$  . ( 12)  
 BN = 3cm  $\mu$  .

**4\_8432-4\_8435**

$\Gamma$   $\mu$   $\hat{B} = \hat{\Gamma}$ .  
 )  $\mu$  . ( 6)  
 )  $\mu$   $\hat{A}$  . ( 7)  
 )  $AB = AG$   $\mu$  . ( 12)

**4\_8466**

$\hat{B}\hat{A}\hat{\Gamma}$ .  $\mu$   $\hat{B}\hat{A}\hat{\Gamma} = 30^\circ$   $\mu$   $AB = AG$ .  
 )  $\hat{B}\hat{A}\hat{\Delta}$  . ( 8)  
 )  $\mu$  . ( 10)  
 )  $B\hat{A}\hat{\Delta} = 20^\circ$ ,  $\mu$  . ( 7)

**4\_8471**

$\mu$   $\hat{\Delta}\hat{B} = \hat{\Delta}\hat{\Gamma}$   $\Delta B = \Delta G$ .  
 )  $\Delta\hat{A}\hat{B} = \Delta\hat{A}\hat{\Gamma}$  . ( 10)  
 )  $\mu$   $\hat{B}\hat{A}\hat{\Gamma}$  ( 7)  
 $B\hat{A}\hat{\Delta} = 20^\circ$   $\Delta\hat{A}\hat{\Gamma}$ . ( 8)

**4\_8476**

$\mu$   $AB = AG$   $\Delta B = \Delta G$ .  
 )  $\Delta\hat{A}\hat{B} = \Delta\hat{A}\hat{\Gamma}$  . ( 10)  
 )  $\mu$   $\hat{B}\hat{A}\hat{\Gamma}$  ( 7)  
 $B\hat{A}\hat{\Delta} = 20^\circ$   $\Delta\hat{A}\hat{\Gamma}$ . ( 8)





**2\_8816**

$\mu_1 = \mu_2$  ; ( 10)  
 )  $\mu = 30^\circ$  ; ( 5)  
 i) ( 5)  
 ii) ( 10)

**2\_8822**

$\mu_1 + \mu_2 = 180^\circ$  ; ( 10)  
 )  $\mu = 25^\circ$  ; ( 5)  
 i) ( 5)  
 ii) ( 10)

**2\_8829**

$\mu_1 = \mu_2$  ; ( 7)  
 )  $\mu_1 + \mu_2 = 180^\circ$  ; ( 10)  
 )  $\mu = 135^\circ$  ; ( 5)  
 i) ( 5)  
 ii) ( 6)

**2\_8834**

$\mu_1 + \mu_2 = 180^\circ$  ; ( 7)  
 )  $\mu_1 + \mu_2 = 180^\circ$  ; ( 7)  
 )  $\mu = 135^\circ$  ; ( 5)  
 i) ( 5)  
 ii) ( 6)

**4\_8361**

$30^\circ$  ; ( 10)  
 ) ( 5)  
 )  $\mu_1 + \mu_2 = 180$  ; ( 10)

**4\_8364**

$\mu$   $\widehat{A\Delta\Gamma}$   $\widehat{\Delta\Gamma B}$   
 $150^\circ$   $\mu$   
 )  $\cdot$  ( 10)  
 )  $\cdot$  ( 5)  
 )  $+ = 180$   $\cdot$  ( 10)

$\mu$   $\widehat{A\Gamma\Delta} = 70^\circ$ ,  $\widehat{B\Delta\Gamma} = 110^\circ$   
 $150^\circ$   $\mu$   
 )  $\cdot$  ( 10)  
 )  $\cdot$  ( 7)  
 )  $=$   $\cdot$  ( 8)

$\mu$   $\widehat{A\Gamma\Delta} = 45^\circ$   
 $45^\circ$   $\mu$   $= 30^\circ$   
 $\mu$   $\widehat{B\Delta\Gamma}$   $\cdot$  ( 8)  
 )  $\cdot$  ( 7)  
 )  $=$   $\cdot$  ( 10)

$\mu$   $\widehat{A\Gamma\Delta} = 40^\circ$   
 $40^\circ$   $\mu$   $= 25^\circ$   $\mu$   
 $\widehat{B\Delta\Gamma}$   $\mu$   $140^\circ$  ( 8)  
 )  $\cdot$  ( 7)  
 )  $+ = 180^\circ$   $\cdot$  ( 10)

$\mu$  ( 1 ) ( 2 )  
 $\mu$   $\widehat{\Gamma\Delta B}$   $\widehat{\Gamma\Delta A} = 75^\circ$   
 $\widehat{\Gamma\Delta B}$  ( 10)  
 $= 150^\circ$  ( 10)  
 $\mu$   $\widehat{K\Delta B}$ ,  
 $\widehat{\Delta B} = 75^\circ$  ( 5)

4\_8450

$\mu$  (1) (2)  
 $\widehat{A\hat{B}\Delta} = 140^\circ$   
 $\widehat{E\hat{A}\Gamma} = 40^\circ$ .  
 )  $\widehat{A\hat{B}\Gamma}$ . ( 10)  
 )  $\widehat{A\hat{\Gamma}B}$ . ( 7)  
 ) . ( 8)

4\_8460

$\mu$  (1) (2)  
 $\widehat{A\hat{B}\Delta} = 110^\circ$ ,  $\widehat{\Gamma\hat{A}B} = 20^\circ$ .  
 )  $\widehat{E\hat{A}B}$ . ( 10)  
 )  $\widehat{E\hat{A}\Gamma} = 90^\circ$ . ( 7)  
 )  $\mu$   $\widehat{A\hat{\Gamma}B} = 90^\circ$ . ( 8)

4\_8646

$\mu$  (1) (2)  
 $\widehat{A\hat{B}\Delta} = 120^\circ$ .  
 $\widehat{E\hat{A}B}$ .  
 )  $\widehat{A\hat{B}\Gamma}$   $\mu$   $\widehat{E\hat{A}B} = 120^\circ$ . ( 6)  
 )  $\widehat{\Gamma\hat{A}B}$ . ( 7)  
 ) . ( 12)

$\mu$

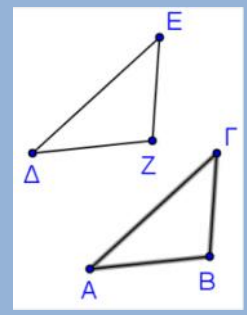
2\_8688

$= 5\text{cm}$ .  $\widehat{\Gamma} = 53^\circ$ ,  $\widehat{B} = 27^\circ$   $\widehat{E} = \widehat{Z} = 100^\circ$ .  
 )  $\widehat{\Gamma} = 53^\circ$ . ( 5)  
 ) . ( 10)  
 )  $= 11\text{cm}$ ,  $\mu$  ( 10)

2\_8694

$\hat{A} = \hat{\Delta} = 30^\circ$        $\hat{\Gamma} = \hat{Z} = 102^\circ$   
 )                       $\hat{B} = \hat{\Gamma} = 48^\circ$   
 )                      =  
 )                      =

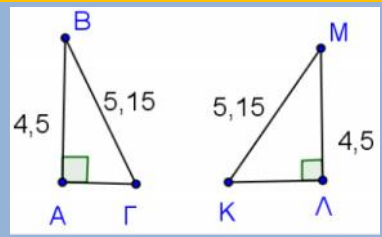
( 5)  
 ( 10)  
 ( 10)



2\_8707

$\mu = 4,5 \text{ cm}$ ,       $\hat{A} = 5,15$   
 )  
 )  $\hat{B} = 30^\circ$ ,       $\hat{\Gamma} = 48^\circ$   
 )

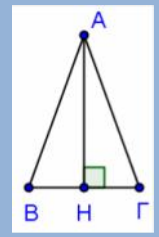
( 15)  
 ( 10)



2\_8728

$\mu AB = A$   
 )  
 )  $= 6 \text{ cm}$        $\mu$   
 )  $\hat{B} = 70^\circ$        $\hat{\Gamma} = 48^\circ$

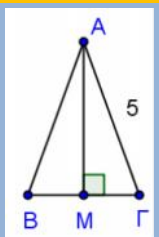
( 5)  
 ( 5)  
 ( 15)



2\_8737

$\mu = 5 \text{ cm}$        $\mu$   
 )       $\hat{B} = 66^\circ$        $\hat{\Gamma} = 48^\circ$   
 )  
 )       $\mu$        $\hat{A} = 24^\circ$

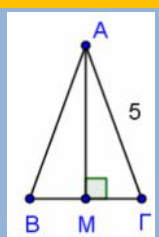
( 5)  
 ( 10)  
 ( 10)



2\_8741

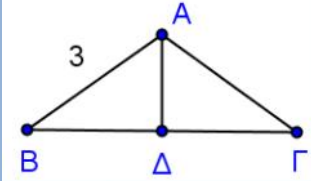
$\mu = 5 \text{ cm}$        $\mu$        $\mu$   
 )       $\hat{B} = 66^\circ$        $\hat{\Gamma} = 48^\circ$   
 )       $\mu$        $\hat{A} = 24^\circ$   
 )

( 5)  
 ( 10)  
 ( 10)



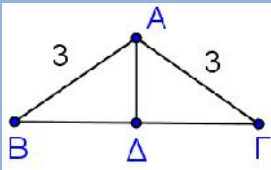
2\_8744 - 2\_8750

$\mu = \mu$   
 $\mu = 3$   
 $\mu : \mu$   
 )  $\mu = 140^\circ$  ( 5)  
 ) ( 10)  
 ) ; 10)  
 (AB=3 2\_8744)



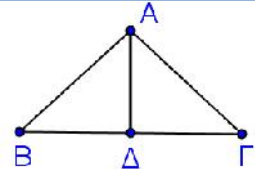
2\_8747

$AB = 3\text{cm}$   $A\Gamma = 3\text{cm}$   
 $\mu : \mu$   
 ) ( 5)  
 )  $\mu = 20^\circ$  ( 10)  
 )  $\hat{A} = 140^\circ$   $\hat{B}\hat{A}\hat{\Delta}$  ( 10)



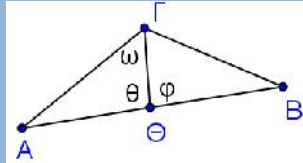
2\_8758

$\mu = \mu$   $\hat{B} = 40^\circ$   
 $\mu : \mu$   
 ) ( 5)  
 ) ( 8)  
 )  $\mu = 3\text{cm}$  ( 12)



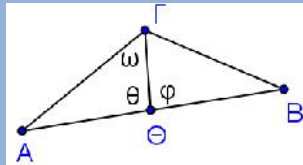
2\_8773

$\mu = \mu$   $\hat{A} = 30^\circ$   
 $\mu = 85^\circ$   
 )  $= 95^\circ$  ( 5)  
 )  $\mu$  ( 10)  
 )  $\mu$   $\hat{\Gamma}$  ( 10)



2\_8779

$\hat{A} = 30^\circ$   $\hat{\Gamma} = 110^\circ$   $\mu = 85^\circ$   
 $\mu$   
 )  $= 95^\circ$  ( 5)  
 )  $\mu$  ( 10)  
 )  $\mu$   $\hat{\Gamma}$  ( 10)



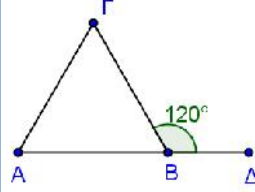


2\_8860

$\hat{B} = \Gamma\hat{B}\Delta$        $\mu 120^\circ$        $\hat{A}$   
 $\mu 60^\circ$        $\mu$

)       $\hat{B} = \Lambda\hat{B}\Gamma$       ;      ( 13)

)       $\hat{\Gamma}$       ( 12)

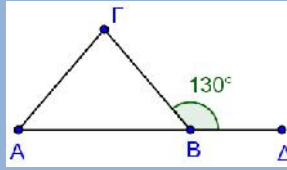


2\_8870

$\hat{B} = \Gamma\hat{B}\Delta$        $\mu 130^\circ$        $\hat{A}$   
 $\mu 50^\circ$        $\mu$

)       $\hat{B} = \Lambda\hat{B}\Gamma$       ( 13)

)       $\mu \Lambda\Gamma = \Gamma\Lambda$        $\hat{\Gamma}$       ( 12)

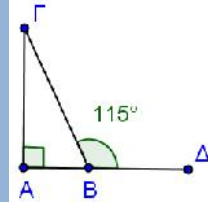


2\_8879

$\hat{B} = \Gamma\hat{B}\Delta$        $\mu \hat{A} = 90^\circ$   
 $\mu 115^\circ$

)       $\hat{B} = \Lambda\hat{B}\Gamma$       ( 13)

)       $\hat{\Gamma}$       ( 12)

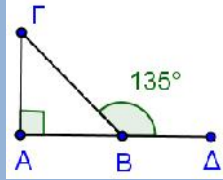


2\_8887

$\hat{B} = \Gamma\hat{B}\Delta$        $\mu \hat{A} = 90^\circ$   
 $\mu 135^\circ$

)       $\hat{B} = \Lambda\hat{B}\Gamma$       ( 13)

)       $\hat{\Gamma}$        $\mu AB = \Lambda\Gamma$       ( 12)

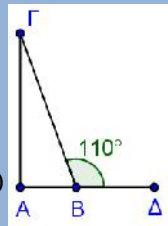


2\_8901

$\hat{B} = \Gamma\hat{B}\Delta$        $\mu 110^\circ$        $\mu$

)       $\hat{B} = \Lambda\hat{B}\Gamma$       ( 13)

)       $\hat{\Gamma}$        $\mu 20^\circ$        $\mu \hat{A} = 90^\circ$       ( 12)





**4\_8396**

$\Gamma$   $\mu$   $AB = A\Gamma = 10\text{cm}.$   
 $\mu$   $\mu$   
 )  $KA = AL.$  ( 8)  
 )  $\Gamma K = BL.$  ( 12)  
 )  $\widehat{BK\Gamma} = 75^\circ$   $\widehat{BL\Gamma}.$  ( 5)

**4\_8401**

$\Gamma$   $(AB = A\Gamma)\mu$   $\widehat{AB\Gamma} = 64^\circ.$   
 $\mu$   $\widehat{AB\Gamma}$   $\mu$   $\widehat{A\Gamma B}.$   
 ) ( 8)  
 )  $\widehat{EB\Gamma} = \widehat{Z\Gamma B}.$  ( 7)  
 )  $Z\Gamma = BE.$  ( 10)

**4\_8405**

$\Gamma$   $(AB = A\Gamma)\mu$   $\widehat{A} = 32^\circ.$   
 $\mu$   $\widehat{AB\Gamma}$   $\mu$   $\widehat{A\Gamma B}.$   
 )  $\widehat{AB\Gamma} = \widehat{A\Gamma B}.$  ( 8)  
 )  $\widehat{ABE} = \widehat{A\Gamma Z}.$  ( 7)  
 )  $Z\Gamma = BE.$  ( 10)

**4\_8408**

$\mu$   
 $\widehat{AZI} = 130^\circ$   $\widehat{ABK} = 150^\circ.$   
 $= 50^\circ$  ( 9)  
 $\widehat{AZB}.$  ( 7)  
 $\widehat{Z\Lambda\Lambda}$   $\mu$   $40^\circ$   $\mu$   $\mu$   $\mu$   
 ( 9)

**4\_8411**

$\mu$   $AB = BE$   $A\Gamma = \Gamma E.$   
 ) ( 12)  
 )  $\widehat{BA\Gamma} = 75^\circ$   $\widehat{EB\Gamma} = 65^\circ,$   
 i)  $\widehat{BE\Gamma} = \widehat{B\Gamma E}.$  ( 8)  
 ii)  $\widehat{A\Gamma E}.$  ( 5)

**4\_8414**

$\mu$   $\Gamma\Gamma = \Gamma E = 10\text{cm}$   $\widehat{A\Gamma B} = \widehat{B\Gamma E} = 45^\circ$  .  
 )  $\widehat{B\hat{A}\Gamma} = 55^\circ$  , ( 12)  
 )  $\widehat{B\hat{E}\Gamma} = \widehat{E\hat{B}\Gamma}$  . ( 8)  
 i)  $\widehat{A\hat{B}\Gamma}$  . ( 5)

**4\_8423**

$\mu\mu$   $\mu\mu$   $\mu$   $\widehat{K\hat{B}\Lambda} = 45^\circ$  ,  $\widehat{A} = \widehat{\Lambda} = 60^\circ$   $AB = B\Lambda$  .  
 )  $\widehat{A\hat{B}\Gamma} = 45^\circ$  . ( 8)  
 )  $\widehat{\Gamma} = \widehat{K}$  . ( 7)  
 )  $\widehat{A\hat{B}\Gamma} = 60^\circ$  . ( 10)

**4\_8441**

$\mu$   $\widehat{B\hat{A}\Gamma} = 60^\circ$   $\widehat{B} = \widehat{\Gamma}$  .  
 )  $\widehat{B} = \widehat{\Gamma}$  . ( 6)  
 )  $\widehat{B\hat{A}\Gamma} = 60^\circ$  . ( 7)  
 )  $\widehat{B\hat{A}\Gamma} = 60^\circ$  . ( 12)

**4\_8456**

$\mu$   $\widehat{A\hat{\Gamma}B} = 40^\circ$   $\mu$   $AB = A\Gamma$  .  
 )  $\widehat{E\hat{A}\Gamma}$  . ( 10)  
 )  $\widehat{A\hat{\Gamma}B} = 40^\circ$  . ( 10)  
 )  $A\Gamma = 8\text{cm}$   $\mu$  . ( 5)

**4\_8463**

$\mu$   $\widehat{A\hat{B}\Gamma} = 40^\circ$   $\mu$   $AB = A\Gamma$  .  
 )  $\widehat{E\hat{A}B}$  . ( 10)  
 )  $\widehat{A\hat{B}\Gamma} = 40^\circ$  . ( 10)  
 )  $\widehat{E\hat{A}\Gamma}$  . ( 5)

