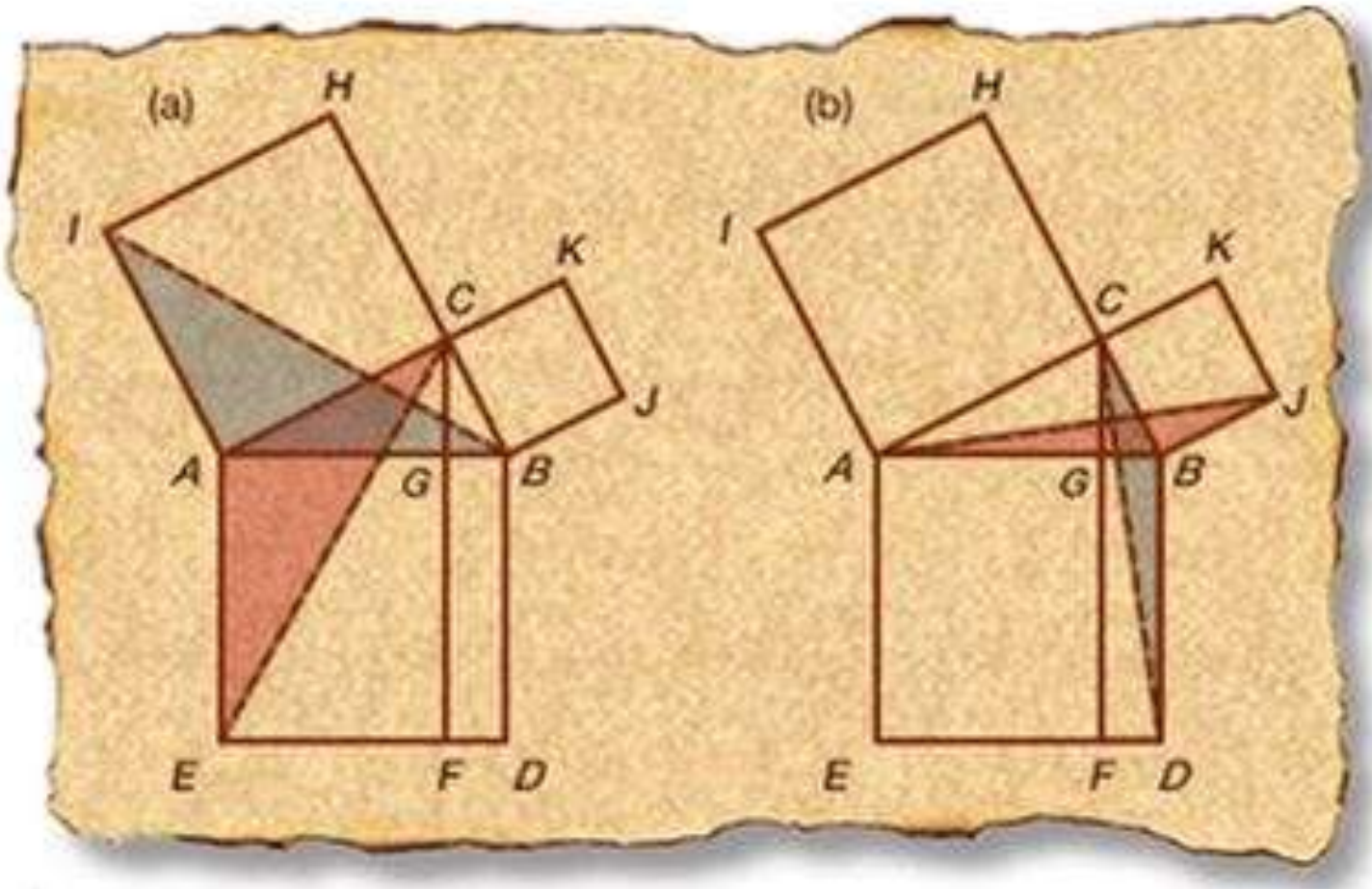


Γεωμετρία Β' Λυκείου

Τράπεζα Θεμάτων



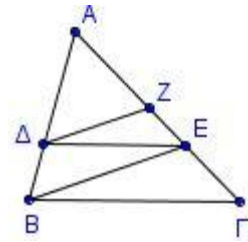
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β' έκδοση 19-11-2014

μ

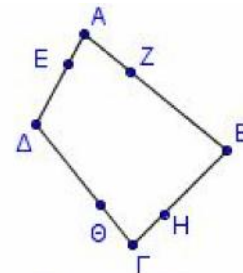
2.18975. μ AB=9 ΑΓ=15.
) $\frac{A\Delta}{AB} = \frac{2}{3}$ $\frac{AE}{E\Gamma} = 2$. μ 15
) μ μ . μ 10

2.19024. μ μ μ
 μ μ μ
) $\frac{AE}{A\Delta} = \frac{A\Gamma}{AB}$ μ 10 :) $\frac{AZ}{A\Delta} = \frac{AE}{AB}$ μ 10
) $\frac{AE}{A\Gamma} = \frac{AZ}{AE}$ μ 5

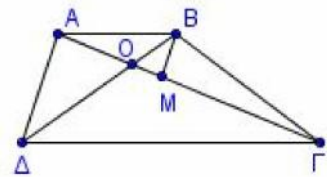


2.19026. μ μ μ
 μ μ μ
) $\frac{\Delta E}{A\Gamma} = \frac{B\Delta}{B\Gamma}$ μ 10 :) $\frac{Z\Delta}{AB} = \frac{\Delta\Gamma}{B\Gamma}$ μ 10) $\frac{\Delta E}{A\Gamma} + \frac{Z\Delta}{AB} = 1$ μ 5

2.19033. μ μ μ
 μ μ μ
 $\frac{AE}{A\Delta} = \frac{AZ}{AB} = \frac{\Gamma H}{\Gamma B} = \frac{\Gamma\Theta}{\Gamma\Delta} = \frac{1}{3}$:
) // // μ 10
) $EZ = \Theta H = \frac{1}{3}AB$ μ 10
) μ μ . μ 5

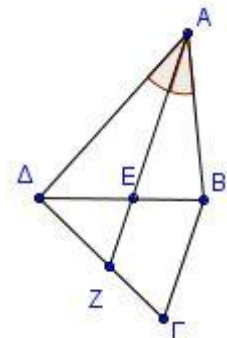


2.19036. (//) μ >
 μ μ μ
) = 27 μ 12 = 12, = 9 = 36, :
) = 4 μ 13



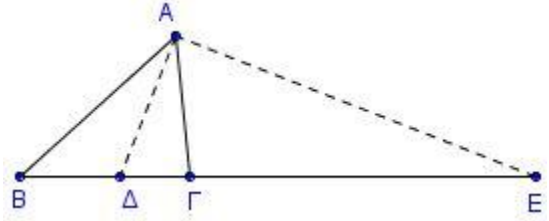
μ μ

2.19031. μ μ μ
 μ μ μ
) = 6 μ 13 = 12, = 8, = 9 = 6, :
) = 9 μ 12



2.19040.

(>) ,
 $\mu = 6$, $\mu = 3$, $\mu = 5$
 $\mu = 15$,
) $\mu = 4$ $\mu = 12$
) $\mu = 12$ $\mu = 13$

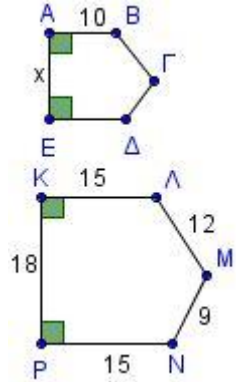


μ

2.19023.

μ ,
 $\hat{\Delta} = \hat{N}$ $\hat{B} = \hat{\Lambda}$.
) μ
) μ x
) μ

$\mu = 8$
 $\mu = 8$
 $\mu = 9$



μ

2.18984.

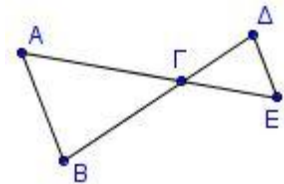
μ
) μ
) μ
 i. $AB = 8$, $AG = 12$, $\hat{A} = 35^\circ$, $\Delta E = 20$, $\Delta Z = 30$, $\hat{\Delta} = 35^\circ$.
 ii. $\hat{A} = 47^\circ$, $\hat{B} = 38^\circ$, $\hat{E} = 47^\circ$, $\hat{\Delta} = 95^\circ$.
 iii. $AB = AG$, $\hat{A} = \hat{\Delta}$, $\Delta E = \Delta Z$.

$\mu = 15$

) μ μ , $\mu = 10$

2.18990.

μ μ μ μ
 μ
) // $\mu = 12$
) $B\Gamma = 2\Delta\Gamma$ $E\Gamma = \frac{1}{2}AG$ $\mu = 13$



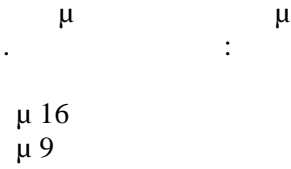
2.18993.

μ μ
) μ
 i. $AG = 4$, $B\Gamma = 16$, $BA = 18$, $\Delta Z = 10$, $EZ = 40$, $\Delta E = 48$
 ii. $\hat{A} = 63^\circ$, $\hat{\Gamma} = 83^\circ$, $\hat{\Delta} = 63^\circ$, $\hat{E} = 34^\circ$

) μ $AB = 6$, $AG = 7$ $B\Gamma = 8$. $\mu = 15$
 μ μ , μ μ 3;
 $\mu = 10$

2.19011.

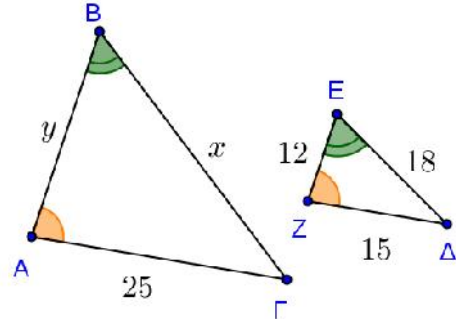
- i.
- ii.
- AG · BΔ = AΔ · BΓ



2.19014.

$\hat{A} = \hat{Z}$, $\hat{B} = \hat{E}$ =25, =12, =18
=15.

-)
-)



$\frac{BA}{\dots} = \frac{A\Gamma}{\dots} = \frac{\Gamma B}{\dots}$

-) x y. μ 8

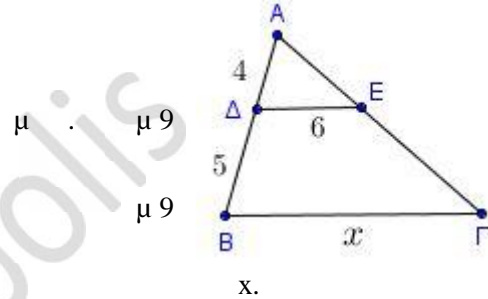
2.19015.

=4, =5 =6.

-)
-)

$\frac{AB}{\dots} = \frac{\dots}{\Delta E} = \frac{A\Gamma}{\dots}$

-) $\frac{4}{6} = \frac{5}{x}$



$\frac{\mu 9}{\mu 9} = \frac{x}{\mu 7}$

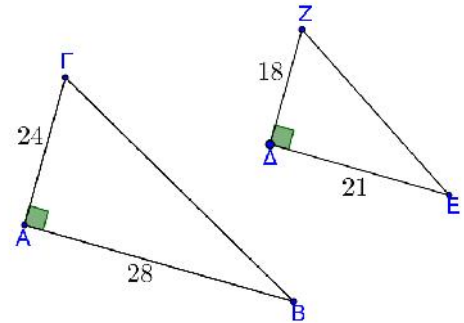
2.19017.

=21, =18. =28, =24

-)
-)

$\frac{AB}{\dots} = \frac{\dots}{EZ} = \frac{A\Gamma}{\dots}$

- μ 10
- μ 9



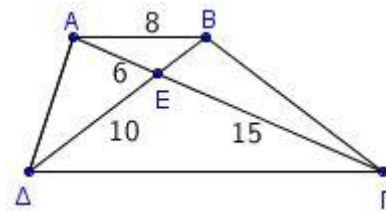
- i. $ZE = \frac{18}{21} \Gamma B$
- ii. $ZE = \frac{24}{28} \Gamma B$
- iii. $ZE = \frac{3}{4} \Gamma B$
- iv. $ZE = \frac{4}{3} \Gamma B$ μ 6

2.19019.

=8, =15 =10. // , =6,

-)
-)
- μ
- μ
-)

- μ 8
- μ 9
- μ 8



4.19020.

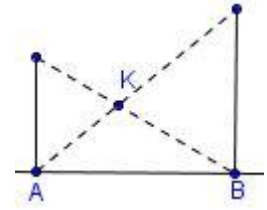
3 μ

)

)

)

μ 2 μ μ μ
 μ μ μ μ
 μ (μ).
 μ 8
 μ μ μ μ
 μ 4 μ μ μ
 μ ; μ 9
 μ μ μ
 μ 8



4.19029.

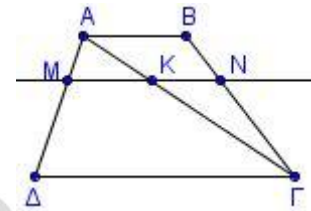
μ

)

$MN = \frac{1}{3} \Gamma\Delta + \frac{2}{3} AB$

)

(//) μ
 $\frac{AM}{A\Delta} = \frac{1}{3}$
 μ
 μ :
 μ 6) $\frac{KN}{AB} = \frac{2}{3}$ μ 6)
 μ 6
 μ « μ »
 μ 7



4.19039.

)

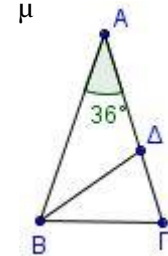
i)

ii)

)

μ μ μ

μ = , ^ = 36°
 μ μ μ 6
 μ μ μ 9
 μ μ (= 1),
 μ μ 10



μ

2.18997.

μ

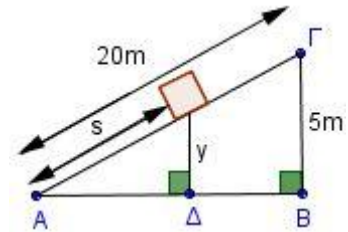
)

)

i.

ii.

μ . y,
 μ , $y = \frac{s}{4}$, s μ
 μ . μ 15
 2m, : μ 3
 μ μ μ 7



2.19005.

$\frac{B\Delta}{\Delta\Gamma} = \frac{3}{4}$

) $AB = \frac{3}{4}AG.$ μ 12

) $BΓ = \frac{5}{4}AG,$ μ 13

2.19008)

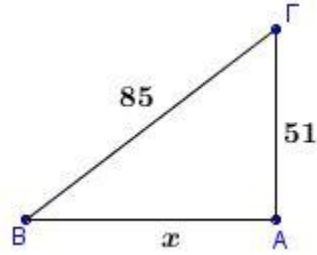
μ i. 3, 4, 5

ii. 3, 4, 5 (>0)

iii. 4, 5, 6 μ 18

) μ x

4. μ 7



2.19041.

$(\hat{A} = 90)$ μ = 8, = $\frac{32}{5}$

) μ 9) μ 8) μ 8

2.19043.

$(\hat{A} = 90)$ μ = 4 = $\frac{12}{5}$.

) μ μ μ μ 10

) = $\frac{9}{5}$. μ 10

) μ μ 5

4.18985.

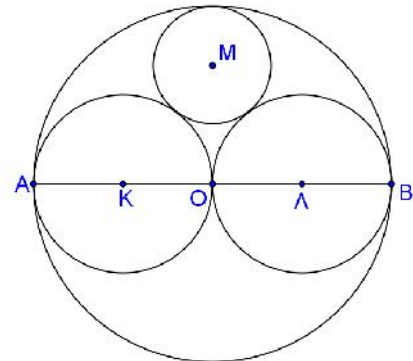
μ i. $AM \cdot AB = AG^2$ μ 8

ii. $AM \cdot AB = AG^2$; μ 9

) μ μ μ $AM \cdot AB = AG^2,$

4.19006.

μ μ μ (O,R) μ μ μ



) μ 12

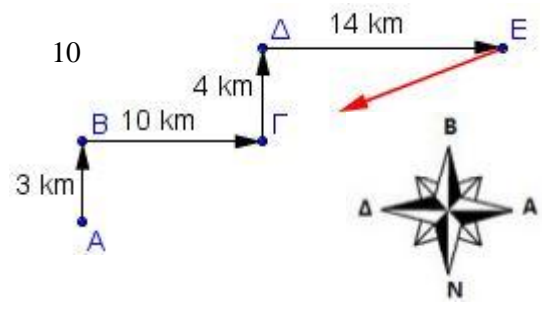
) = $\frac{R}{3}$.

μ 13

μ

4.19009.

) μ 3 , μ
) μ 14 μ
) μ μ , μ
) μ , μ 12
) μ , μ 13



μ

2.19001.

) μ = 8, = 6 = 5.
) μ . μ 11
) . μ 14

2.19045.

) μ = 6, = 9 $\hat{B} = 60^\circ$
) $AG = 3\sqrt{7}$. μ 8
) μ 8
) μ 9

μ μ

2.19042.

) μ = 7, = 4 μ = $\sqrt{33}$.
) = 5. μ 13
) μ 12

μ

4.19025.

) μ μ , μ μ .
) $AB^2 = 4MA \cdot M\Gamma$ μ 7) $AB^2 + A\Delta^2 = 2AM \cdot A\Gamma$ μ 9
) $AB^2 + B\Gamma^2 + \Gamma\Delta^2 + A\Delta^2 = 2A\Gamma^2$ μ 9

4.19037.

) μ μ μ = $\frac{\sqrt{5}}{2}$.
) μ μ , : μ 8
) μ μ . μ 9
) μ μ = 2 μ 8

$$\frac{E_1}{E_2} = \left(\frac{(A\Lambda N)}{(KMA)} \right)^2 \quad \mu 9$$

4.19034.

$$\begin{aligned} & \mu \quad , \quad , \\ & , \quad = \frac{1}{2} \quad , \quad = \frac{2}{3} \quad = \frac{1}{3} \quad . \\ &) \quad (\quad) = \frac{1}{3} (\quad) . \quad \mu 7 \\ &) \quad \frac{(\quad)}{(\quad)} = \frac{5}{18} \quad \mu 12 \\ &) \quad \mu \quad \frac{(\quad)}{(\quad)} . \quad \mu 6 \end{aligned}$$

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