

20/6/2014

:

1.

$\mu\mu$, , μ .

) μ , . **02**

) $\hat{A} < 90^\circ$, $a^2 < b^2 + c^2$. **02**

) Η $\mu\mu$ (,R) $R\sqrt{3}$. **02**

) μ μ . **02**

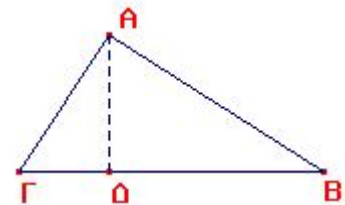
) To μ μ B, $= \frac{+ \cdot}{2}$. **02**

2. i) ; **01**

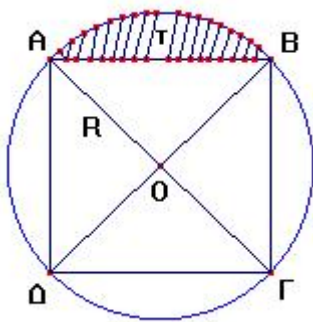
ii) ; **01**

3. ($\hat{A} = 90^\circ$)

μ μ .



13



$\mu\mu$ μ μ R . $4\sqrt{2}$

) R $\mu\mu$ **08**

) μ μ **07**

) μ . **05**

) μ $\mu\mu$ () **05**

$$\mu = 7, = 5, = 3.$$

1. . 09

2. , :

i) , . 06

ii) , μ . 06

3. N : $\hat{B} + \hat{\Gamma} = 60$. 04

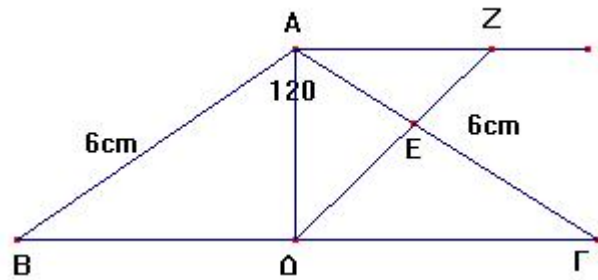
$$\left(\mu 60 = \mu 120 = \frac{\sqrt{3}}{2}, \quad 60 = \frac{1}{2}, \quad 120 = -\frac{1}{2} \right)$$

$$\mu = 6 \text{ cm}$$

$$A = 120 .$$

1. μ

$$() = 9\sqrt{3} \text{ cm}^2 .$$



08

2. μ , $= \frac{A\Gamma}{3}$,

μ . 06

3. μ , μ , 06

4. μ . 05

(μ)

1. μ (μ μ , μ μ μ).
μ μ . μ
2. μ μ μ μ μ . μ μ
3. « » μ .
4. μ μ μ μ μ .
μ μ μ , μμ .
5. μ μ μ .
6. : (2) μ μ .
7. : 1 μ μ .

μ μ μ

- 1.)
-)
-)
-)
-)

2.

3. . 184, μ IV

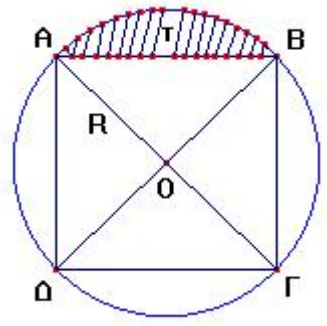
B

B1. $4 = R \cdot \sqrt{2}$
 $4 = 4 \cdot \sqrt{2}$

$R = 4$

B2. $16 = \mu \cdot R^2 = \mu \cdot 4^2 =$

B3. $(4\sqrt{2})^2 = 4^2 \cdot (\sqrt{2})^2 = 16 \cdot 2 = 32$
 $= 4^2 = \mu$



4. 1 _____: () = $\frac{16 - 32}{4} = \frac{16}{4} - \frac{32}{4} = (4 - 8)$ μ

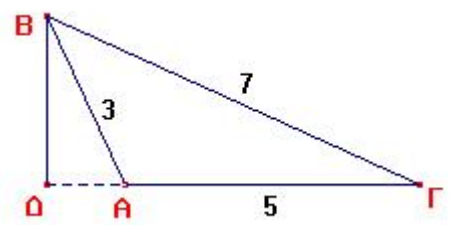
2 _____: () = $(\widehat{AB}) - () = \frac{\mu \cdot R^2}{360} - \frac{1}{2} R \cdot R = \frac{\mu \cdot 4^2 \cdot 90}{360} - \frac{1}{2} \cdot 4 \cdot 4 =$
 $= (4 - 8)$ μ

1. μ , μ

$7^2 = 49$, $5^2 + 3^2 = 25 + 9 = 34$
 $7^2 > 5^2 + 3^2$ $\hat{A} > 90^\circ$. μ

2. i)

μ $(\hat{A} > 90^\circ)$.
 $7^2 = 5^2 + 3^2 + 2 \cdot 5 \cdot 3 \cdot \cos(\hat{A})$



$$49 = 25 + 9 + 10 \cdot$$

$$49 - 25 - 9 = 10 \cdot$$

$$49 - 34 = 10 \cdot$$

$$15 = 10 \cdot$$

$$= 1,5 \mu \quad \mu$$

ii)

$$\mu^2 - 2^2 = 2 \cdot \mu$$

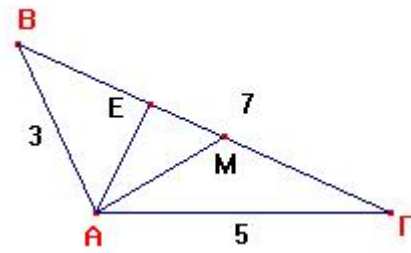
$$5^2 - 3^2 = 2 \cdot 7$$

$$25 - 9 = 14 \cdot$$

$$16 = 14 \cdot$$

$$= \frac{16}{14}$$

$$= \frac{8}{7}$$



3. $\hat{B} + \hat{\Gamma} = 60$, $\hat{A} = 120$.

1 $\hat{B} = 30$, $\hat{\Gamma} = 90$, $\hat{A} = 120$.

2 i) $\Delta B A \hat{A} \Delta$.

2 $7^2 = 5^2 + 3^2 - 2 \cdot 5 \cdot 3 \cdot \cos A$

$$49 = 25 + 9 - 30 \cdot \cos A$$

$$49 - 25 - 9 = -30 \cdot \cos A$$

$$15 = -30 \cdot \cos A$$

$$\cos A = -\frac{15}{30}$$

$$\cos A = -\frac{1}{2}$$

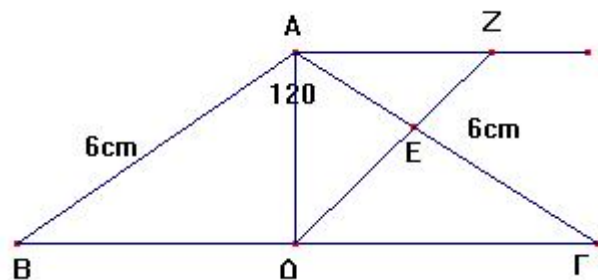
$$\hat{A} = 120$$

1. $S_{\Delta B A \Gamma} = \frac{1}{2} \cdot 6 \cdot 6 \cdot \sin 120$

$$= \frac{1}{2} \cdot 6 \cdot 6 \cdot \frac{\sqrt{3}}{2} = 9\sqrt{3} \text{ cm}^2$$

2.

μ



$$\frac{(\Delta E\Gamma)}{(\Delta\Delta\Gamma)} = \frac{\Gamma\Delta \cdot \Gamma E}{\Gamma\Delta \cdot \Gamma\Lambda} = \frac{\Gamma E}{\Gamma\Lambda} = \frac{\frac{2\Gamma\Lambda}{3}}{\Gamma\Lambda} = \frac{2}{3} \quad :$$

$$(\quad) = \frac{2}{3}(\quad) = \frac{2}{3} \cdot \frac{1}{2}(\quad) = \frac{1}{3}(\quad) = \frac{1}{3} \cdot 9\sqrt{3} = 3\sqrt{3} \text{ cm}^2.$$

3.

$$(\quad, \quad \dots) \mu \quad \mu \quad = \frac{AE}{E\Gamma} = \frac{1}{2} \quad :$$

$$\frac{(AEZ)}{(\Delta E\Gamma)} = 2 = \left(\frac{AE}{E\Gamma}\right)^2 = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$$

$$(\quad) = \frac{1}{4} \cdot (\quad) = \frac{1}{4} \cdot 3\sqrt{3} = \frac{3}{4}\sqrt{3} \text{ cm}^2.$$

4.

$$\mu \quad \mu \quad :$$

$$\frac{(AE\Delta)}{(\Delta E\Gamma)} = \frac{AE}{E\Gamma}$$

$$\frac{(AE\Delta)}{(\Delta E\Gamma)} = \frac{1}{2}$$

$$\frac{(AE\Delta)}{3\sqrt{3}} = \frac{1}{2}$$

$$(AE\Delta) = \frac{3}{2}\sqrt{3} \text{ cm}^2.$$