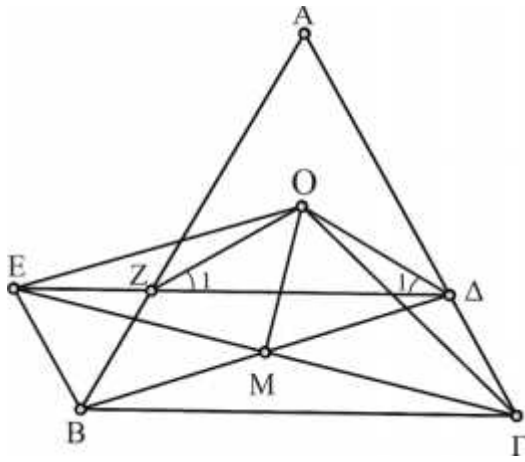


1



(1) // μ

$$\hat{} = \hat{} = 60^\circ ()$$

$$\hat{} = \hat{} = 60^\circ () .$$

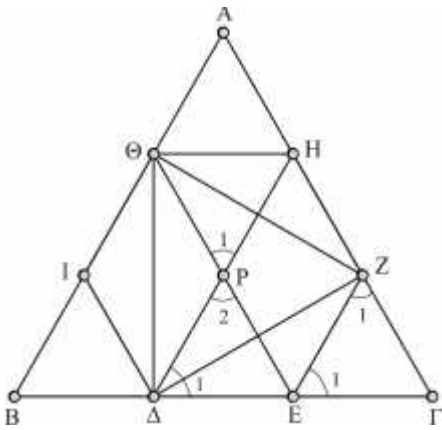
(2)

$$\begin{aligned} & \vdots \\ \boxed{1^\circ} & = = = . \\ \boxed{2^\circ} & = \end{aligned}$$

$$\boxed{3^\circ} \hat{} = \hat{} = 150^\circ \quad \hat{}_1 = \hat{}_1 = 30^\circ .$$

(3) (2) μ = μ μ ⊥ , $\hat{} = 90^\circ$.

2



(1) $\hat{}_1 = \hat{}_1 = 60^\circ$, // $\Rightarrow =$
 // , μ μ . μ = //

(2) $\hat{} + \hat{} = 60^\circ + \hat{}_1 + 60^\circ + \hat{}_1 =$
 $= 120^\circ + (\hat{}_1 + \hat{}_1) = 120^\circ + 180^\circ - 60^\circ = 240^\circ$

, $\hat{}_1 = \hat{}_2 = 60^\circ$
 $\hat{} + \hat{} = 360^\circ - 120^\circ = 240^\circ$. μ
 $\hat{} = \hat{} = \hat{} = \hat{}$, \vdots
 $\hat{} + \hat{} = \hat{} + \hat{} \Rightarrow \hat{} = \hat{}$.

2

$$\hat{}_2 = \hat{}_2 = 60^\circ (\mu) \quad \hat{} = 60^\circ ,$$

$$\hat{} = 180^\circ - \hat{} = 120^\circ , \quad \hat{} = 180^\circ - \hat{} = 120^\circ \quad \hat{} = 180^\circ - \hat{}_1 = 120^\circ$$

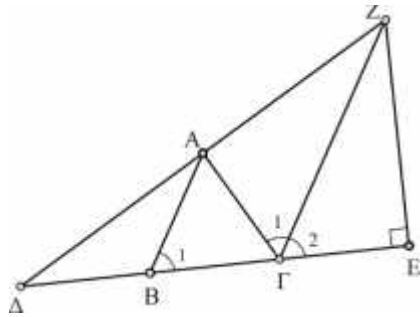
(3) $\boxed{1^\circ} = \boxed{2^\circ} =$

$$\boxed{3^\circ} \hat{} = \hat{} \quad (2) = .$$

(4) = = = $\frac{}{2}$.

⊥ .

3

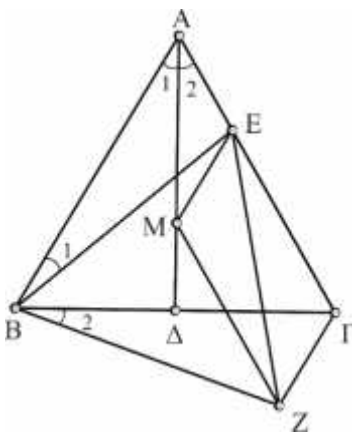


(1) $\mu = \frac{\mu}{2} \Rightarrow \hat{} = 90^\circ$.

(2) $\boxed{1^\circ} = \boxed{2^\circ} =$:

(3) $\hat{}_1 = \hat{}_2$ (2)
 $\hat{}_2 = \hat{}_1, \parallel$
 $\hat{} = 180^\circ - 60^\circ = 120^\circ \Rightarrow \hat{}_2 = 60^\circ$
 $\mu =$

4

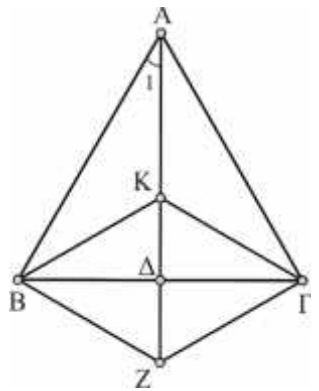


(1) $\mu, \hat{}_1 = \hat{}_2 = 30^\circ$
 $\parallel \Rightarrow \hat{} = \hat{}_1 = 30^\circ = \hat{}_2, = \mu \mu,$

(2) $= =$
 $: \boxed{1^\circ} = () \boxed{2^\circ} =$
 $\boxed{3^\circ} \hat{} = \hat{} = \hat{} = 60^\circ (\parallel) .$

(3) $2) \Rightarrow \hat{}_1 = \hat{}_2 \Rightarrow \hat{}_1 + \hat{} = \hat{}_2 + \hat{} \Rightarrow 60^\circ = \hat{}$

5

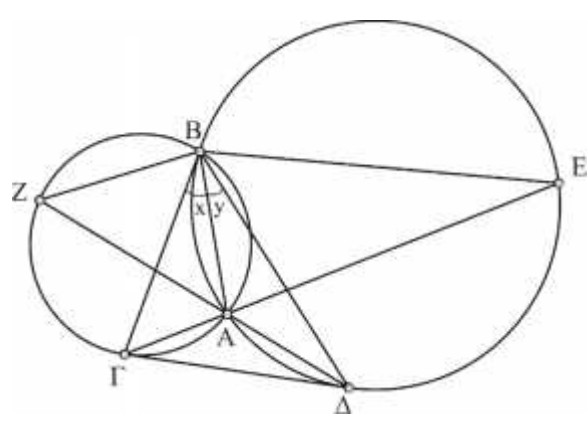


(1) $\mu, \hat{}_1 = 30^\circ, = \frac{1}{2} \Rightarrow$

(2) $\boxed{1^\circ} = \boxed{2^\circ} = \boxed{3^\circ}$
 $\hat{} = 90^\circ$
 $= \frac{\mu}{2}, = \mu$

(3) μ

$\mu \frac{1}{2}$, // $\perp \Rightarrow \perp$.
 2 = = μ μ .
 6

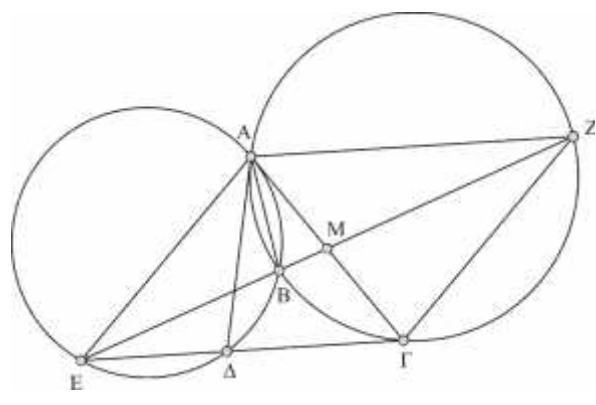


(1) $\hat{x} = \hat{y}$,
 $\hat{x} = \hat{\mu}$, $\hat{y} = \hat{\mu}$ ($\mu\mu$) .
 $\hat{\mu} + \hat{\mu} = 180^\circ - \hat{\mu}$.
 $\hat{\mu} = 180^\circ - \hat{\mu}$.
 (2) $\mu \hat{\mu} = \hat{\mu}$ ($\hat{\mu}$) .
 $\hat{\mu} = \hat{\mu} + \hat{\mu}$,
 $\hat{\mu} = \hat{\mu} = \hat{\mu}$.

(3) $\hat{\mu} = \hat{\mu}$, $\hat{\mu} = \hat{\mu}$.

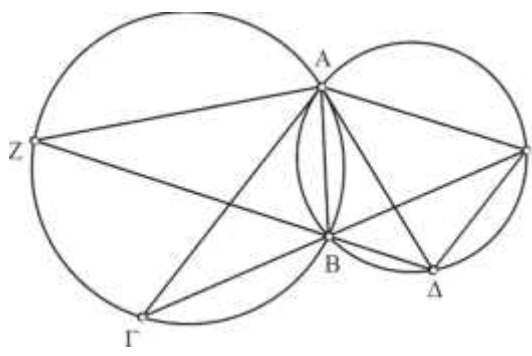
7

(1) $\hat{\mu} = \hat{\mu}$ (μ) $\hat{\mu} = \hat{\mu}$.



(2) $\mu \hat{\mu} = \hat{\mu}$ ($\hat{\mu}$) .
 $\hat{\mu} = \hat{\mu}$, // $\mu\mu$.
 (3) $\mu\mu \Rightarrow \mu$.

8



(1) $\mu \hat{=} \hat{=}$

$\hat{=} = \hat{=} = 180^\circ - (\hat{=} + \hat{=})$

$\hat{=} = \hat{=} (\hat{=} \cdot \hat{=})$

$\mu \hat{=} = \hat{=} \cdot \mu$

$\hat{=} = \hat{=}$

(2)

$\mu \hat{=} = \hat{=} = \hat{=} + \hat{=} = \hat{=} + \hat{=} = \hat{=}$

$\hat{=} = \hat{=} \hat{=} = \hat{=} (\hat{=} - \mu)$ $\mu :$

$\hat{=} = \hat{=} + \hat{=} (\hat{=})$ $\mu \hat{=} = \hat{=}$ $:$

$\hat{=} = \hat{=} = \hat{=} + \hat{=} = \hat{=} + \hat{=} = \hat{=} + \hat{=} = \hat{=}$

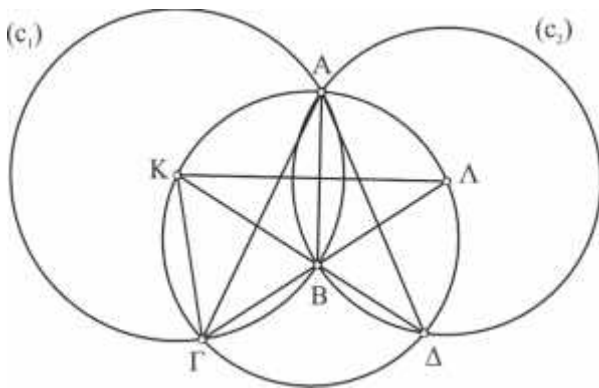
$, \hat{=} = \hat{=}$

(3)

$1^\circ = 2^\circ \hat{=} = \hat{=}$

$3^\circ \hat{=} = \hat{=}$ $=$

9



(1) $\hat{=} \mu \mu$

(c1), $\hat{=} = \frac{1}{2} \hat{=} = \hat{=}$

(2) $\mu \mu (c)$

$\hat{=} = \hat{=}$ $, \mu$ $, ,$

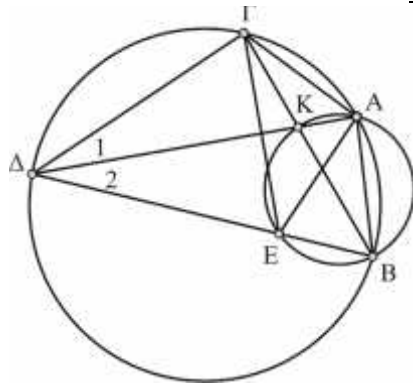
(3)

$\mu \hat{=} = \frac{1}{2} \hat{=} \mu \mu (c1)$ (c): $\hat{=} = \hat{=}$

$:\hat{=} = \frac{1}{2} \hat{=} \Rightarrow 2 \hat{=} = \hat{=} \Rightarrow \hat{=} = \hat{=}$ μ

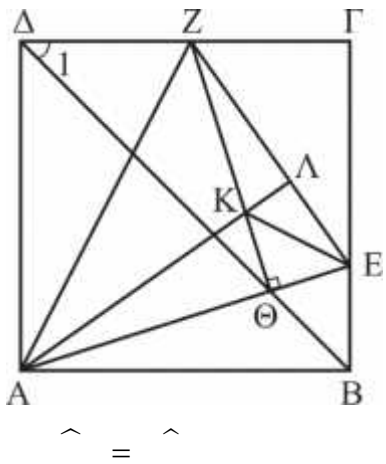
$\hat{=}$

10



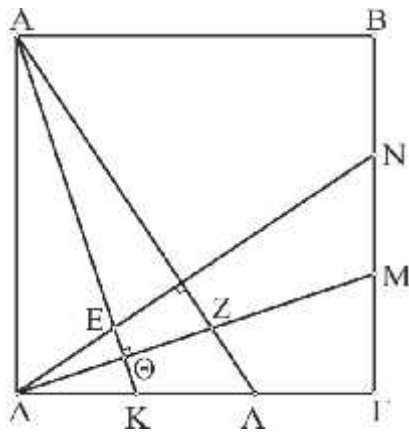
(1) $\hat{\mu} = \hat{\mu} \Rightarrow \hat{\mu}_1 = \hat{\mu}_2$,
 (2) $\hat{\mu} = \hat{\mu} \Rightarrow \hat{\mu} = \hat{\mu}$ (c1),
 $\hat{\mu} = \hat{\mu}$ (c2),
 (3) :
 $\hat{\mu}_1 = \hat{\mu}_2$ (1)
 (2), o =
 , \perp .

11



(1) $\hat{\mu} = 90^\circ = \hat{\mu} \Rightarrow \hat{\mu} = 90^\circ$
 (2) $\hat{\mu} = 45^\circ \Rightarrow \hat{\mu}_1 = 45^\circ = \hat{\mu}$
 $\hat{\mu} = 90^\circ$
 $\Rightarrow \hat{\mu} = \hat{\mu}$
 (3) :
 $\hat{\mu} = \hat{\mu}$ (2) $\hat{\mu} = \hat{\mu}$
 $\hat{\mu} = \hat{\mu}$
 $\hat{\mu} = \hat{\mu} = 90^\circ$.

12



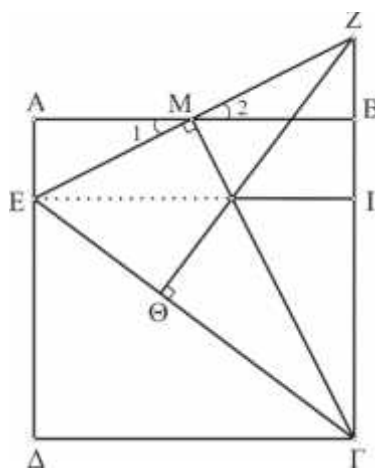
(1) :
 $\hat{\mu}_1 = \hat{\mu}_2 = \hat{\mu}$
 , $\hat{\mu} = \hat{\mu}$
 : $\hat{\mu}_1 = \hat{\mu}_2 = \hat{\mu}$
 $\hat{\mu} = \hat{\mu}$
 (2) : $\hat{\mu} = \hat{\mu}$. $\hat{\mu}$

$$\hat{\perp} = 90^\circ \Rightarrow \hat{\mu} + \hat{\perp} = 90^\circ,$$

(3)

//

13



(1)

$$\boxed{1} = (\mu) \quad \boxed{2} \hat{=} \hat{=} = 90^\circ$$

$$\boxed{3} \hat{=} \hat{=} \quad \mu =$$

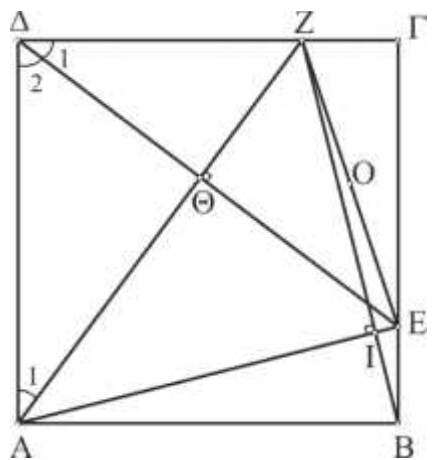
(2)

(3)

14

(1)

$$= \mu$$



(2)

$$\hat{=} \hat{=} \quad \mu \quad \hat{=} \hat{=} = 90^\circ,$$

$$\hat{=} \hat{=} = 90^\circ,$$

(3)

$$\mu = \frac{1}{2}$$

$$\mu = \frac{1}{2}$$

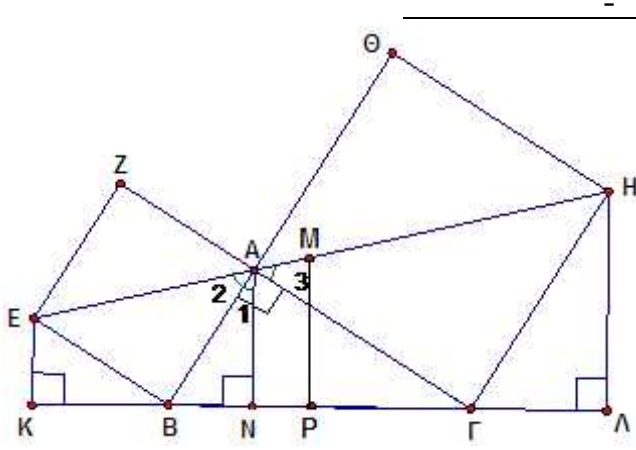
$$\mu = \frac{1}{2}$$

2

μ

$\frac{1}{2}$

15



(1)

$\triangle \mu \perp \triangle N$
 $: \boxed{1} EB = AB$

$\boxed{2} \hat{B}_1 = \hat{A}_1$

μ , $N = (1)$.

μ
 \triangle
 $N =$

(2). (1) (2)
 (2) $+ = N + N =$, $= \mu$
 $= N = N$.

(3) $\hat{A}_2 = \hat{A}_3 = 45^\circ$,

(4) μ . $\hat{H} = 45^\circ + 90^\circ + 45^\circ = 180^\circ$.

\perp (3). μ , μ . $\perp \perp$,
 \perp (3). μ . $\parallel \parallel$,
 μ $= =$ (1) $=$
 $\mu \mu$, μ

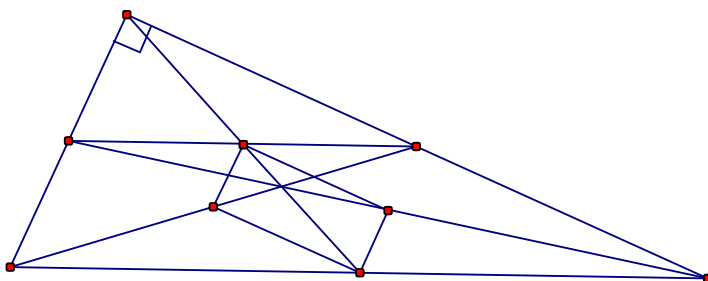
(3)

$N \frac{<}{2} N \frac{>}{2}$

(2),

μ

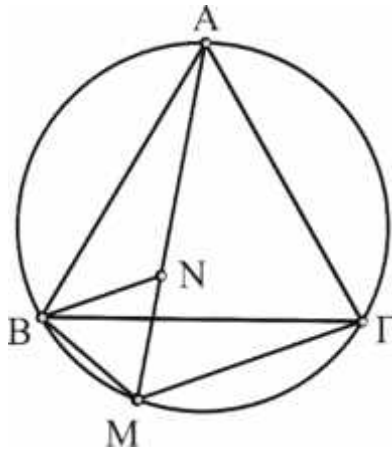
16



(1)

μ
 $\hat{\mu} = 90^\circ$
 μ

18

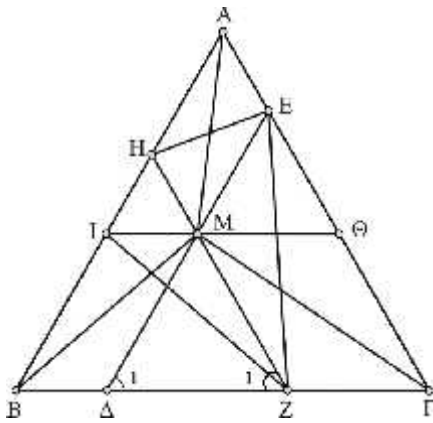


(1) $\hat{A} = \hat{M} = 60^\circ$ $\mu\mu$
 $\hat{N} = \mu$

(2) :
 $\boxed{1^\circ} = (\quad)$
 $\boxed{2^\circ} = (\quad 1)$
 $\boxed{3^\circ} \hat{A} = \hat{M}$
 $\hat{A} + \hat{M} = 60^\circ = \hat{A} + \hat{M}$

(3) $\mu = \mu$
 $\mu = \mu + \mu = \mu + \mu$

19



(1) $\parallel \Rightarrow \hat{1} = \hat{2} = 60^\circ$
 $\parallel \Rightarrow \hat{1} = \hat{2} = 60^\circ$

(2) μ
 $\mu\mu$, $\mu = \mu$
 $\mu + \mu = \mu + \mu$

20

(1) $\mu\mu$ $\hat{A} = \hat{M} = 60^\circ$
 $\mu = \frac{1}{2}$

(2) μ $\hat{A} = \hat{M} = 60^\circ$
 $\hat{A} = \hat{M} = 60^\circ$
 μ

21

(1) $\mu = \mu, \mu = \mu, \mu = \mu.$

(2) $\mu = \mu, \mu = \mu. //$

(c1), $\hat{x} = \hat{x}, \mu = \mu$
 $\hat{x} = \hat{x}, \mu = \mu$
 (c2), $\hat{x} = \hat{x}.$

$\square^{2^\circ} = \square^{3^\circ} \hat{x} = \hat{x}, \square^{1^\circ} = \square^{1^\circ} = \square^{1^\circ} = \square^{1^\circ}.$

(3) $\mu \perp \mu.$

22

(1) $\hat{x} = \hat{x} - \hat{x} = 90^\circ - \hat{x}$
 $\hat{x} = \hat{x} - \hat{x} = 90^\circ - \hat{x}.$

(A2) $\hat{K}\hat{A} = x + 90^\circ, \hat{K}\hat{A} = \hat{K}\hat{x}.$
 $\hat{x} = \hat{x} - x = 90^\circ - x,$
 $\hat{x} + \hat{x} = 90^\circ - x + 90^\circ + x = 180^\circ.$

(A3) (2) $\Rightarrow \mu, \mu = \mu$
 $\mu = \mu = \mu$
 $// \perp \Rightarrow \perp.$

23

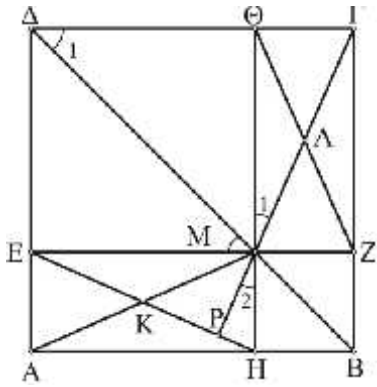
(1) $\hat{x} = \hat{x}_1 = \hat{x}_1, \hat{x} = \hat{x}_1 = \hat{x}_2$
 $\hat{x} = \hat{x}_1 + \hat{x}_2, \hat{x} = \hat{x}_1 + \hat{x}_1.$
 $\hat{x} = \hat{x}_1 + \hat{x}_2 + \hat{x}_1 + \hat{x}_1 = 2\hat{x}.$

(2) $\hat{x} = 2\hat{x} = \hat{x}, \mu = \mu.$

(3) $\hat{x} = \hat{x} - \hat{x} = \hat{x} - \hat{x}.$
 $\hat{x} = \frac{180^\circ - \hat{x}}{2} \Rightarrow \hat{x} = 90^\circ - \hat{x}.$
 $\hat{x} + \hat{x} + \hat{x} = 360^\circ \Rightarrow 2\hat{x} = 360^\circ - 2\hat{x} \Rightarrow \hat{x} = 180^\circ - \hat{x},$

$$\hat{} = 180^\circ - \hat{} - 90^\circ + \hat{} = 90^\circ.$$

24



(1)

[1]

$$\hat{}_1 = \hat{} = 45^\circ, \quad \mu = \frac{\mu}{2}.$$

[2]

(2)

(1)

$$\hat{} + \hat{}_1 = 90^\circ \Rightarrow \hat{} + \hat{}_2 = 90^\circ \Rightarrow \hat{}_1 = \hat{}_2$$

(3)

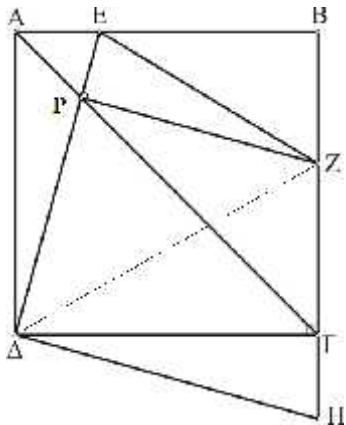
μ

$$= \frac{\mu}{2}.$$

$$\Rightarrow = \frac{1}{2} \mu.$$

μ

25



(1)

[1]

[2]

(2)

(3)

(4)

[1]

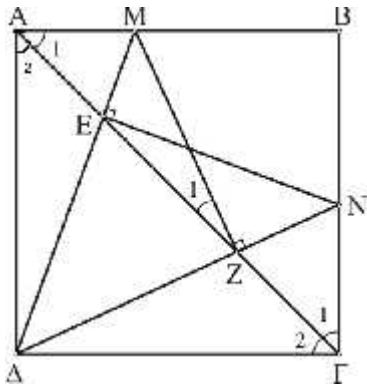
(1) [2]

[3]

$$= \mu + \mu = 2\mu$$

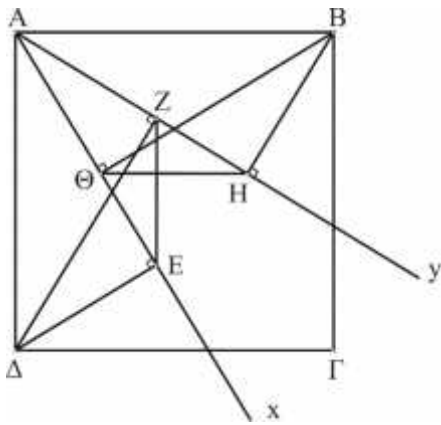
$$\hat{} = \hat{} = 45^\circ$$

26



- (1) $\hat{} = 45^\circ = \hat{}_1 \Rightarrow$ μ .
- (2) $\hat{} = \hat{}_2 = 45^\circ,$ $45^\circ \Rightarrow \hat{} = 90^\circ.$ $\hat{}_1 = \hat{} = 45^\circ,$ $\hat{} = \hat{}_2 = 45^\circ.$ μ :
- (3) $\hat{} = 180^\circ - 45^\circ - \hat{}_1 = 135^\circ - \hat{}_1$ μ .
- $\hat{} = 180^\circ - 45^\circ - \hat{}_1 = 135^\circ - \hat{}_1.$ μ .

27



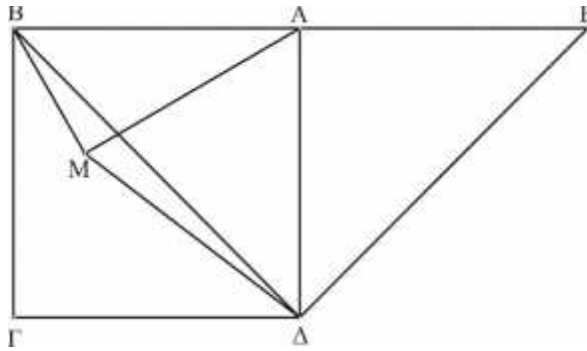
- (1) $\hat{} = \hat{} = 90^\circ \Rightarrow$ μ .
- (2) $\hat{} = \hat{} = 90^\circ$ (1) μ .
- $\hat{} = \hat{} . \mu$ $\hat{} + \hat{} = 90^\circ$
- $\hat{} + \hat{} = 90^\circ$
- $\hat{} = \hat{} \Rightarrow \hat{} = \hat{},$
- $\hat{} = \hat{} .$
- 2 μ (1) μ :
- (3) $\hat{} = \hat{} = 90^\circ.$ $\hat{} = \hat{} . \mu$
- $\hat{} + \hat{} = \hat{} + \hat{} = 90^\circ,$ \perp .

28

(1)

$$\hat{} = 180^\circ - 30^\circ - 15^\circ = 135^\circ,$$

μ .



μ $60^\circ,$

-,

$$\hat{} = 45^\circ,$$

$$\hat{} + \hat{} = 180^\circ,$$

(2)

$= =$

$\mu\mu$

(c)

(3)

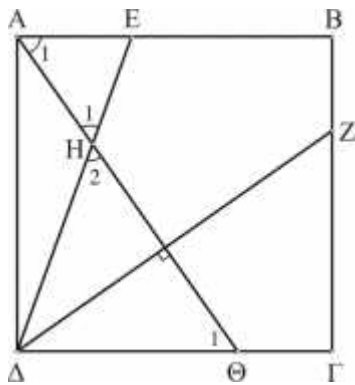
$\mu\mu$ $\hat{} = 30^\circ$

(c)

$\hat{} = 2 \cdot \hat{} = 60^\circ.$

$= .$

29



(1)

$\hat{}_1 = \hat{}_1.$ μ $\hat{}_1 = \hat{}_1$ $= ,$

$\hat{}_1 = \hat{}_2$ μ $\hat{}_1 = \hat{}_2,$ $=$

(2)

\perp

(3)

$\boxed{1^\circ}$

$=$

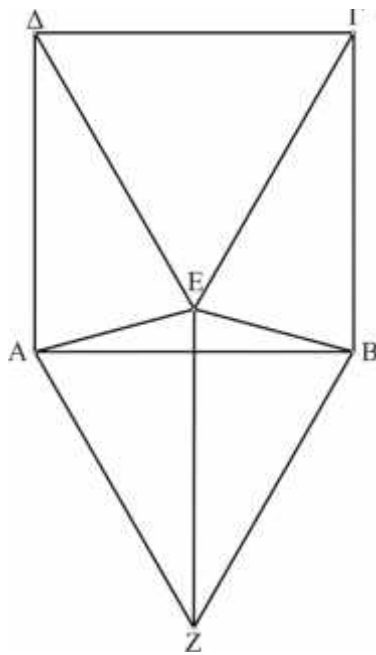
$\boxed{2^\circ}$

$\hat{} = \hat{}$
 $= .$

$= \mu + \mu = + .$

$\boxed{3^\circ}$

$\hat{} = \hat{} = 90^\circ.$



(1)

$\square 1^\circ = \square 2^\circ =$

$\square 3^\circ \hat{=} \hat{=} = 75^\circ,$

(2)

$\Rightarrow \mu$

μ

$\hat{=} = \frac{180^\circ - 30^\circ}{2} = 75^\circ.$

$\hat{=} = 60^\circ + 15^\circ = 75^\circ,$

(3)

$\mu = //$

$\mu \mu = \mu$

$\mu = \mu$

$= =$