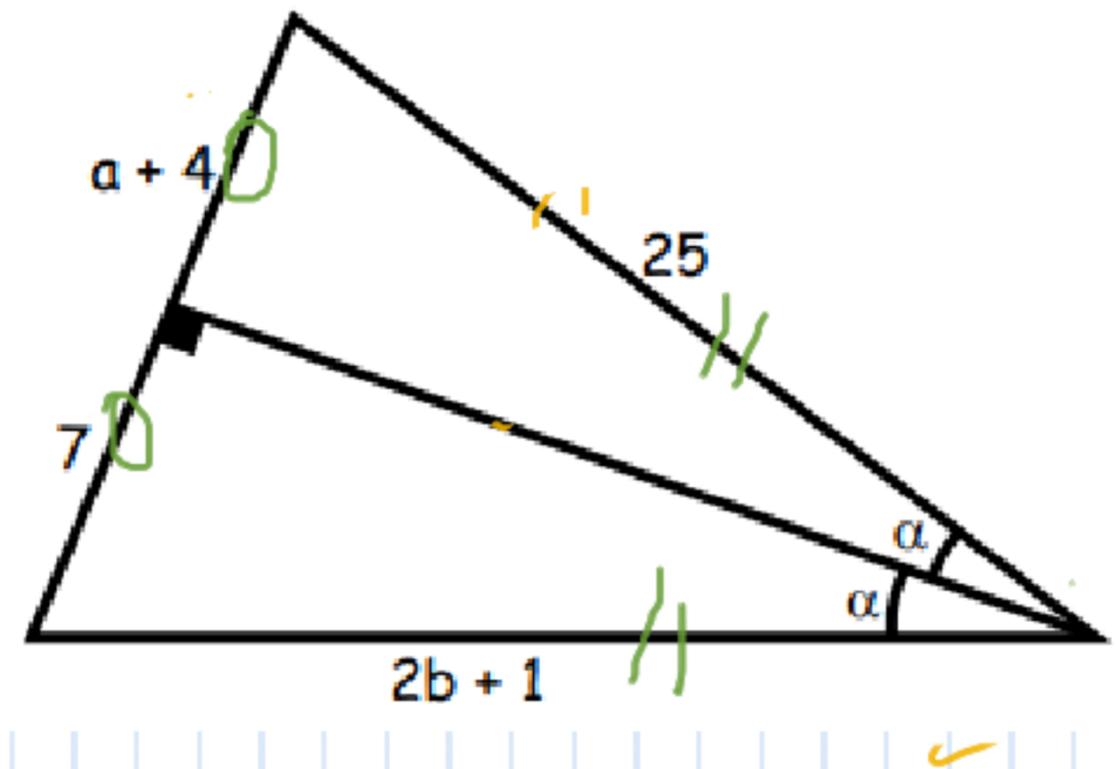


II. Propiedad de la mediatriz

1. Hallar "a + b"

- a) 15
- b) 18
- c) 19
- d) 12
- e) 16



$2b + 1 = 25$ ✓
 $2b = 24$ ✓
 $b = 12$ ✓

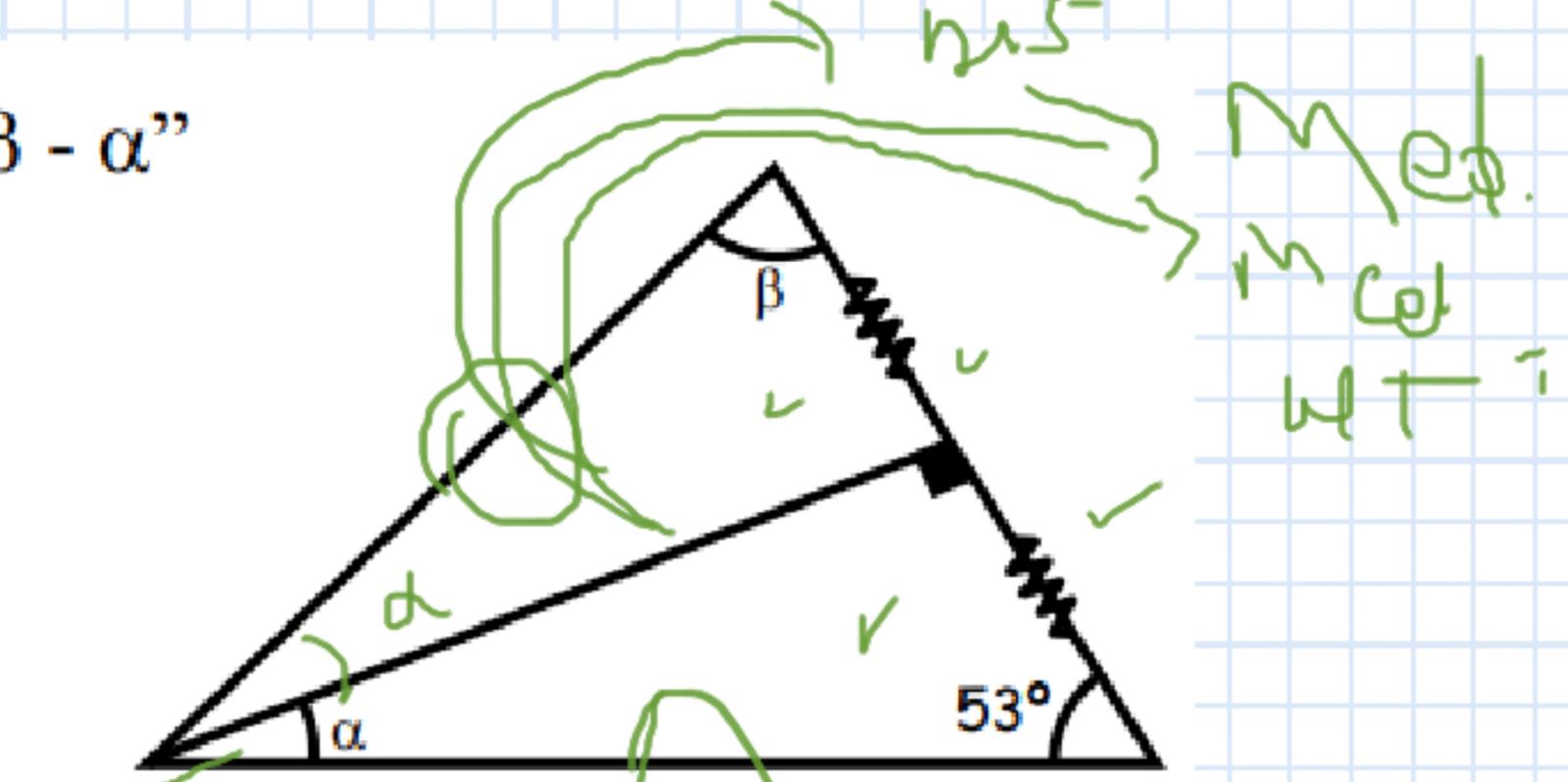
$a + 4 = 7$ ✓
 $a = 3$ ✓
 $a + b$ ✓
 $3 + 12$ ✓
 15 ✓



II. Propiedad de la mediatriz

2. Hallar " $\beta - \alpha$ "

- a) 37°
- b) 16°
- c) 15°
- d) 20°
- e) 45°



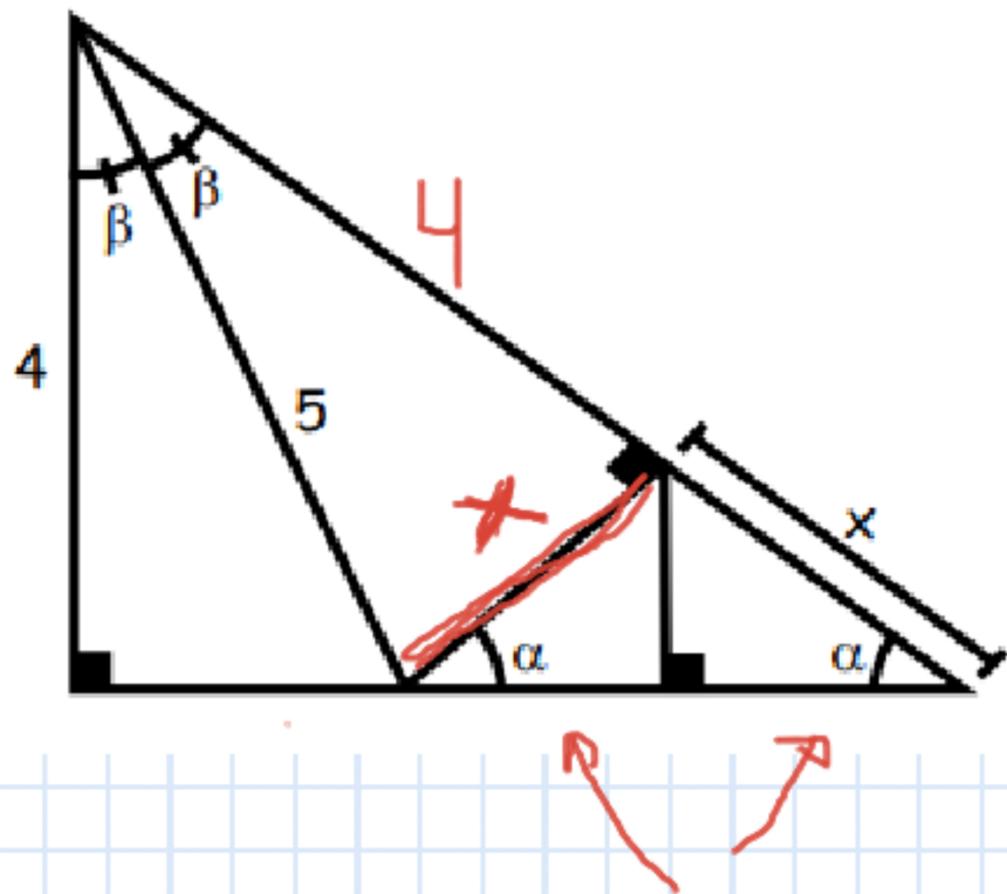
$\alpha = 37^\circ$
 $\beta = 53$

$\beta - \alpha$
 $53 - 37$
 16°

II. Propiedad de la mediatriz

3. Hallar "x"

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5



$$x = 3 \checkmark$$

$$4^2 + x^2 = 25$$

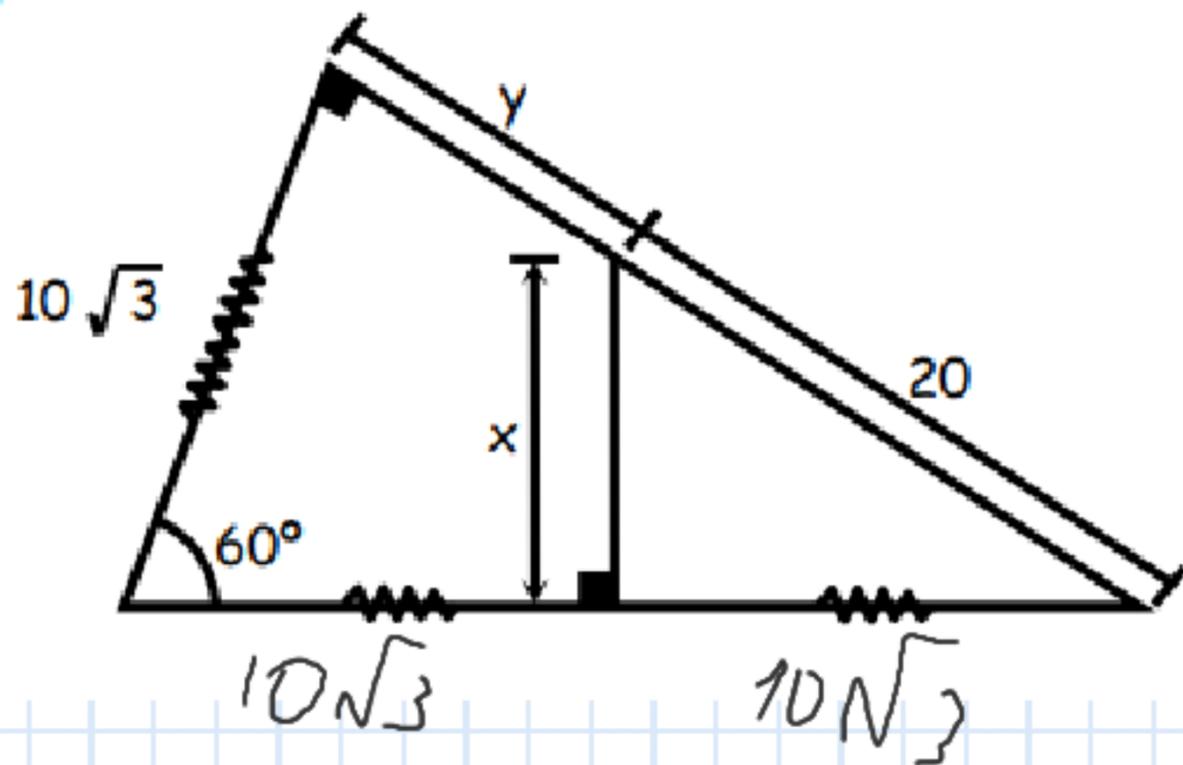
$$x^2 = 9$$

$$x = 3 \checkmark$$

II. Propiedad de la mediatriz

4. Hallar "x"

- a) 18
- b) 10**
- c) 25
- d) 20
- e) 15



5. Del problema anterior, hallar "x + y"

- a) 25
- b) 28
- c) 20
- d) 33
- e) 24

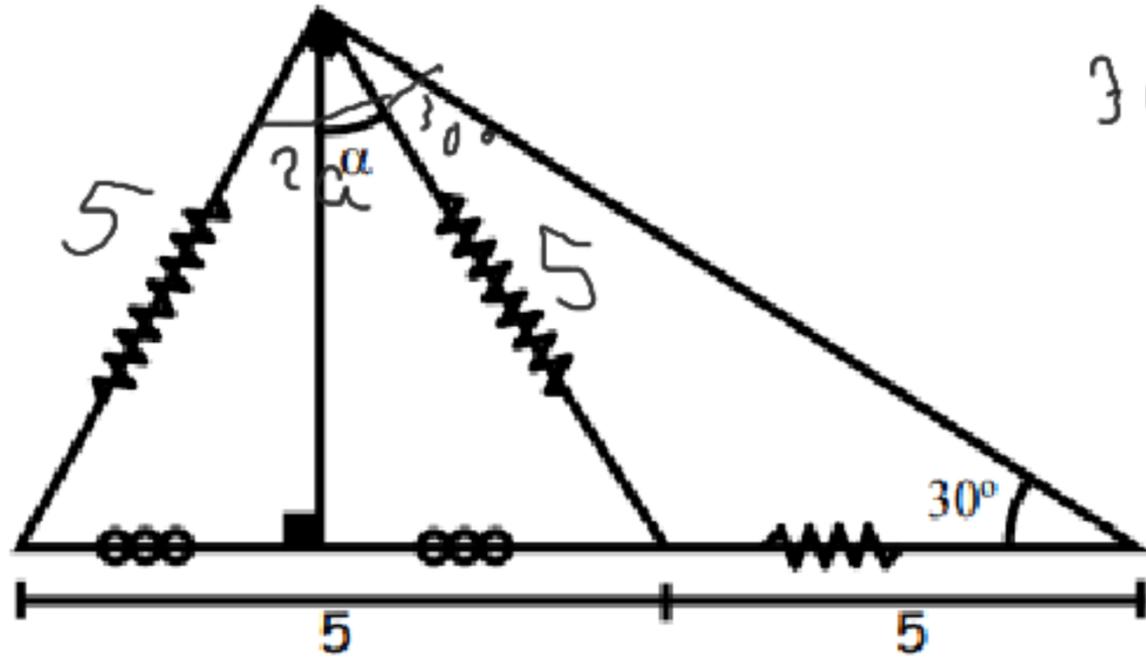
$$\begin{aligned}
 (10\sqrt{3})^2 + (10\sqrt{3} + 10\sqrt{3})^2 &= (20 + y)^2 \\
 100 \cdot 3 + 100 \cdot 3 + 100 \cdot 3 &= 400 + y^2 \\
 300 + 300 + 300 &= 400 + y^2 \\
 900 &= 400 + y^2 \\
 500 &= y^2
 \end{aligned}$$

$$\begin{aligned}
 x^2 + (10\sqrt{3})^2 &= 20^2 \\
 x^2 + 10 \cdot 3 &= 400 \\
 x^2 + 300 &= 400 \\
 x &= \sqrt{100} \\
 x &= 10
 \end{aligned}$$

II. Propiedad de la mediatriz

6. Hallar "2α"

- a) 40°
- b) 60°
- c) 50°
- d) 55°
- e) 30°

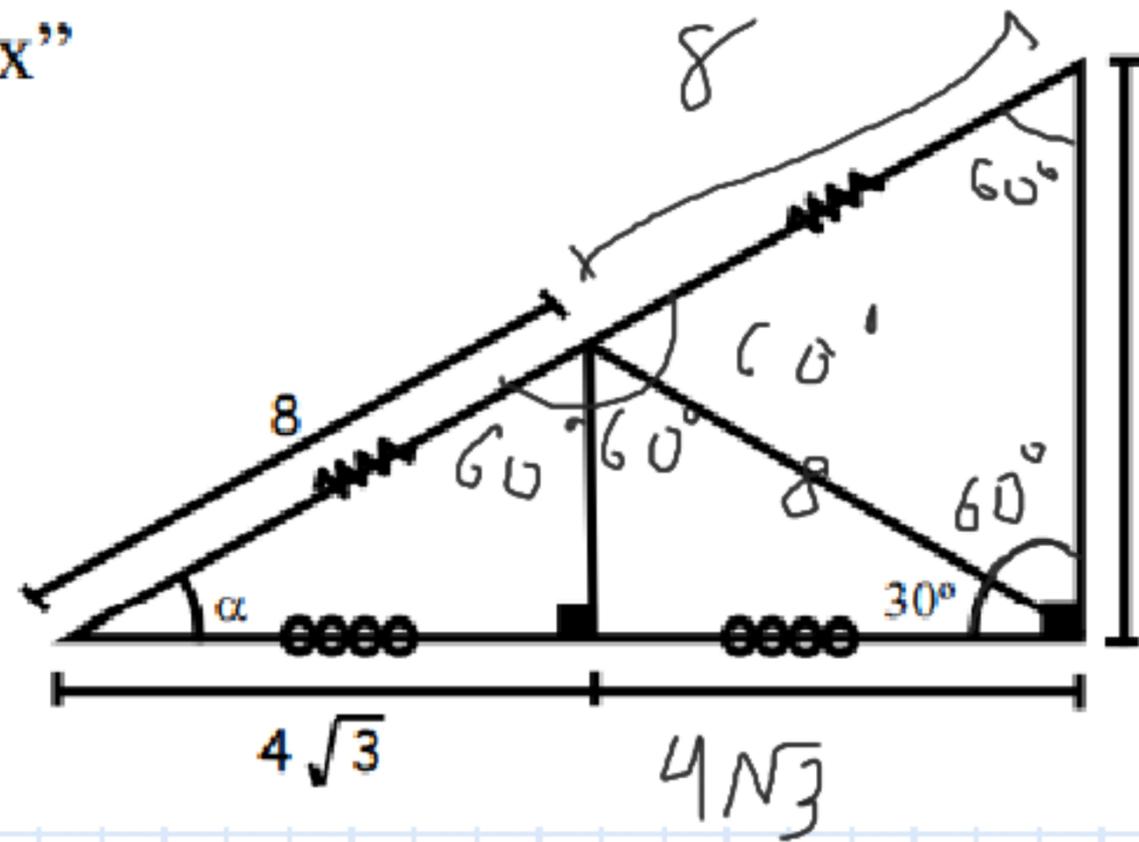


$30^\circ + 2\alpha = 90^\circ$
 $2\alpha = 60^\circ$

|

7. Hallar "2x"

- a) 10
- b) 16**
- c) 12
- d) 15
- e) 8



$x = 8$

$2x = 8 \cdot 2$

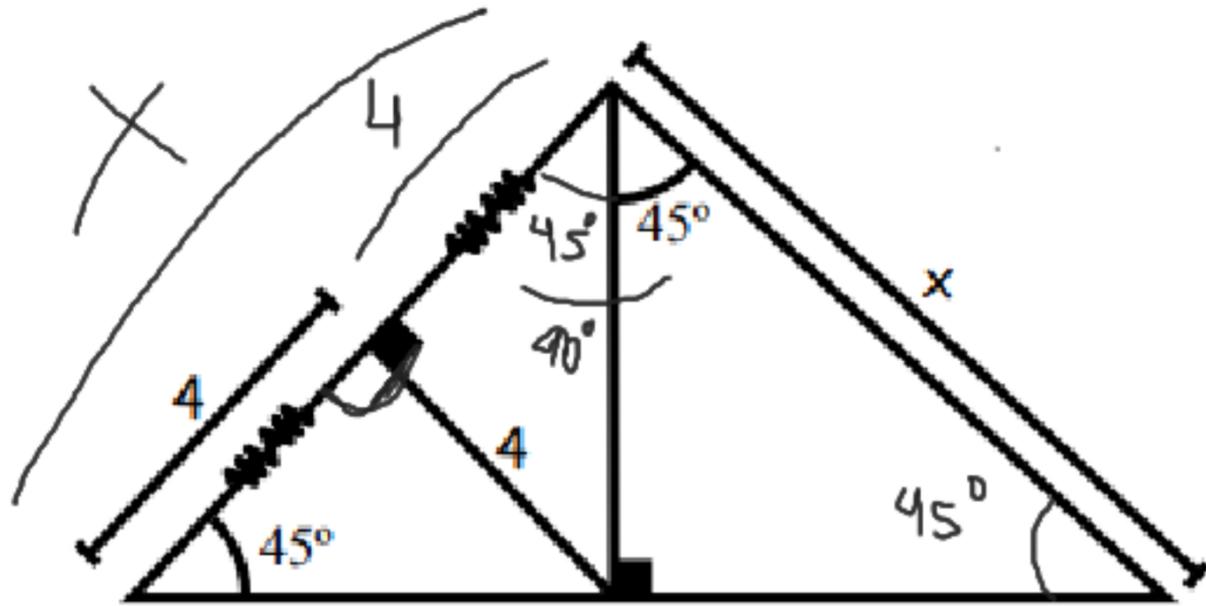
16

II. Propiedad de la mediatriz

II. Propiedad de la mediatriz

8. Hallar "x"

- a) 12
- b) 10
- c) 6
- d) 8
- e) 16

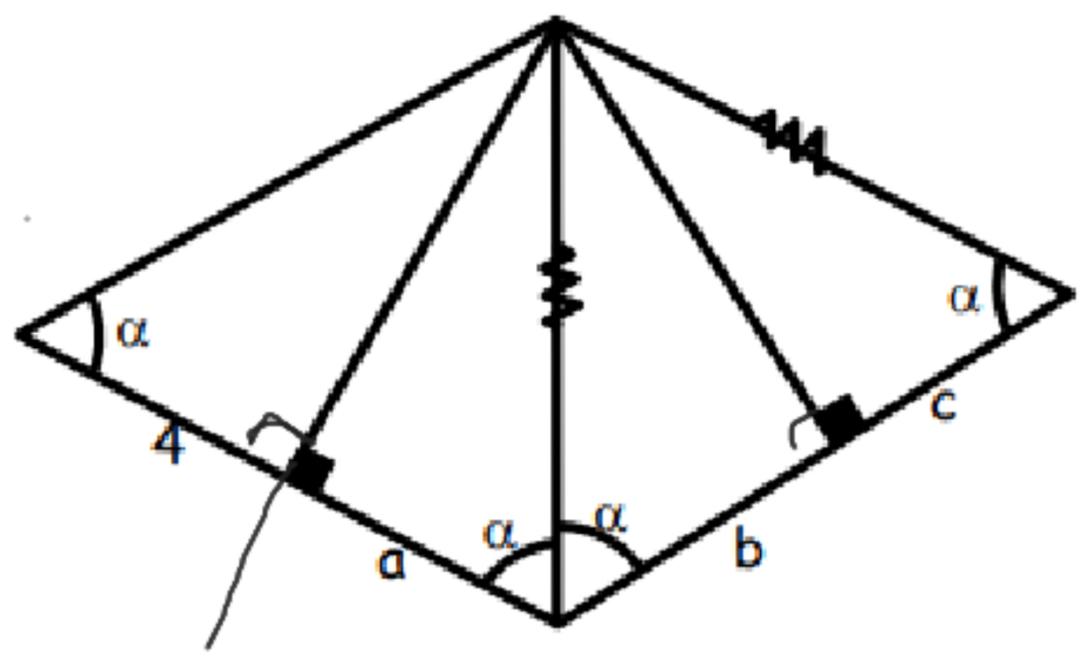


$4 \cdot 2 = x$

II. Propiedad de la mediatriz

9. Hallar "3a + 2b - c"

- a) 15
- b) 12
- c) 16**
- d) 20
- e) 8



$a = 4$

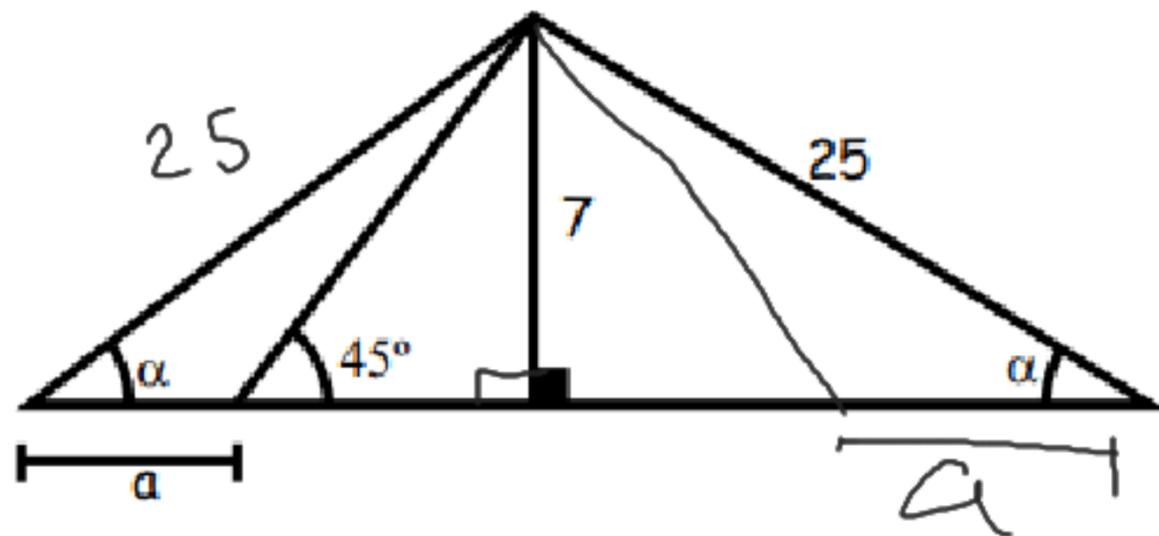
$b + c = 8$
 $4 + 4 = 8$

$a = c$

$3(4) + 2(4) - 4$
 $12 + 8 - 4$
 $12 + 4$
 16

10. Hallar "a"

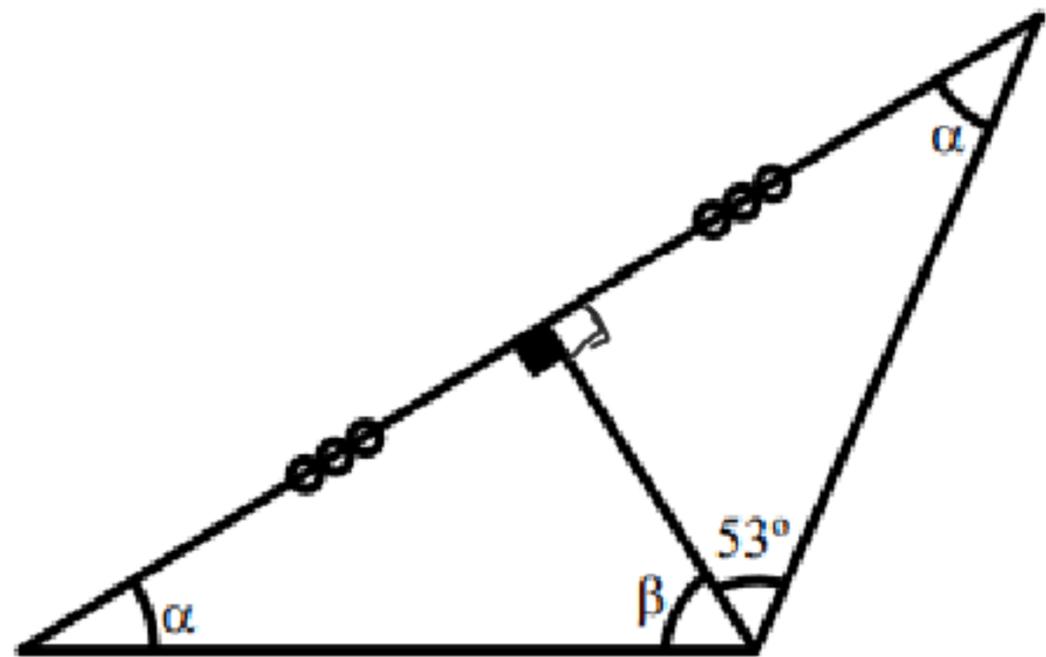
- a) 15
- b) 17
- c) 20
- d) 21
- e) 8



II. Propiedad de la mediatriz

11. Hallar " 2β "

- a) 100°
- b) 74°
- c) 90°
- d) 106°
- e) 37°

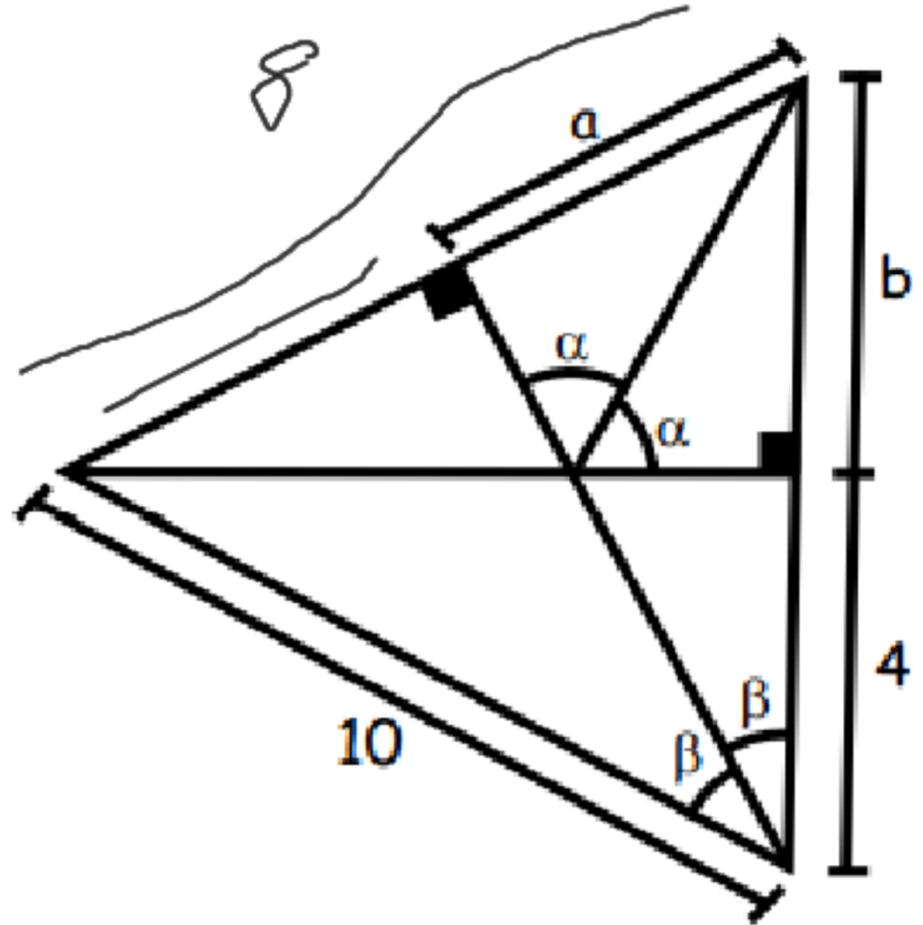


$$\beta = 53^\circ$$
$$53^\circ \cdot 2$$
$$106^\circ$$

II. Propiedad de la mediatriz

12. Hallar "a + b"

- a) 9
- b) 8**
- c) 12
- d) 10
- e) 6



Handwritten notes on grid paper:

$b = 4$

$a = 4$

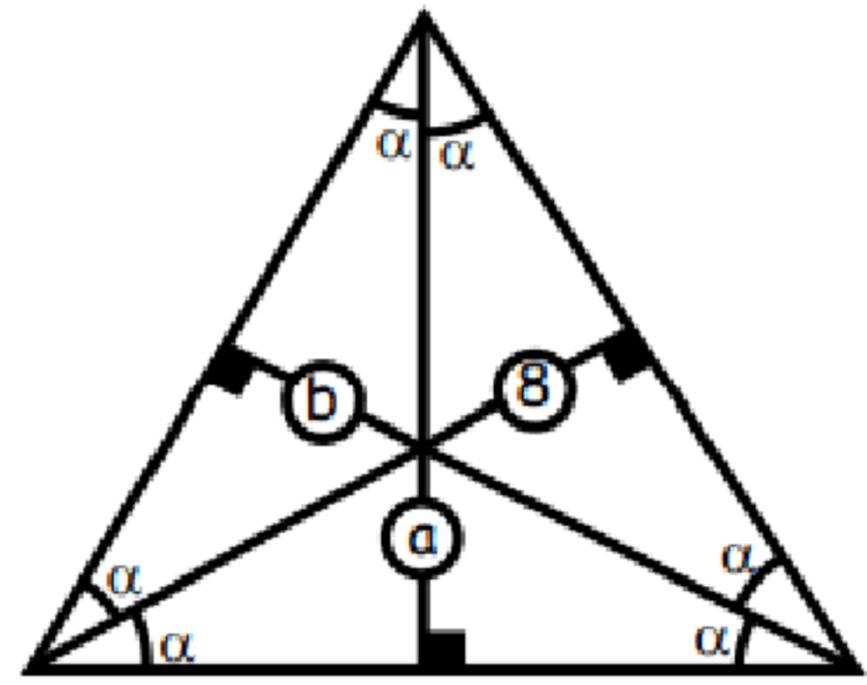
Handwritten calculation:

$a + b$
 $4 + 4$
 $8 //$

II. Propiedad de la mediatriz

13. Hallar $\frac{a+b}{4}$

- a) 2
- b) 5
- c) 4
- d) 6
- e) 8

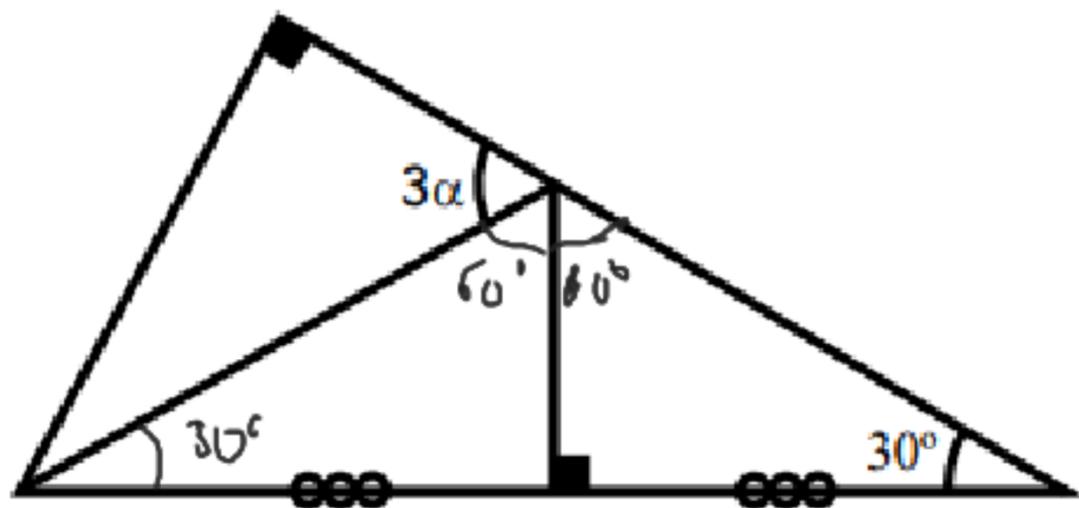


$b = 8$
 $a = 8$
 $8 + 8$
 $\frac{16}{4}$
 4

II. Propiedad de la mediatriz

14. Hallar el valor de " α "

- a) 30°
- b) 20°
- c) 40°
- d) 50°
- e) 25°

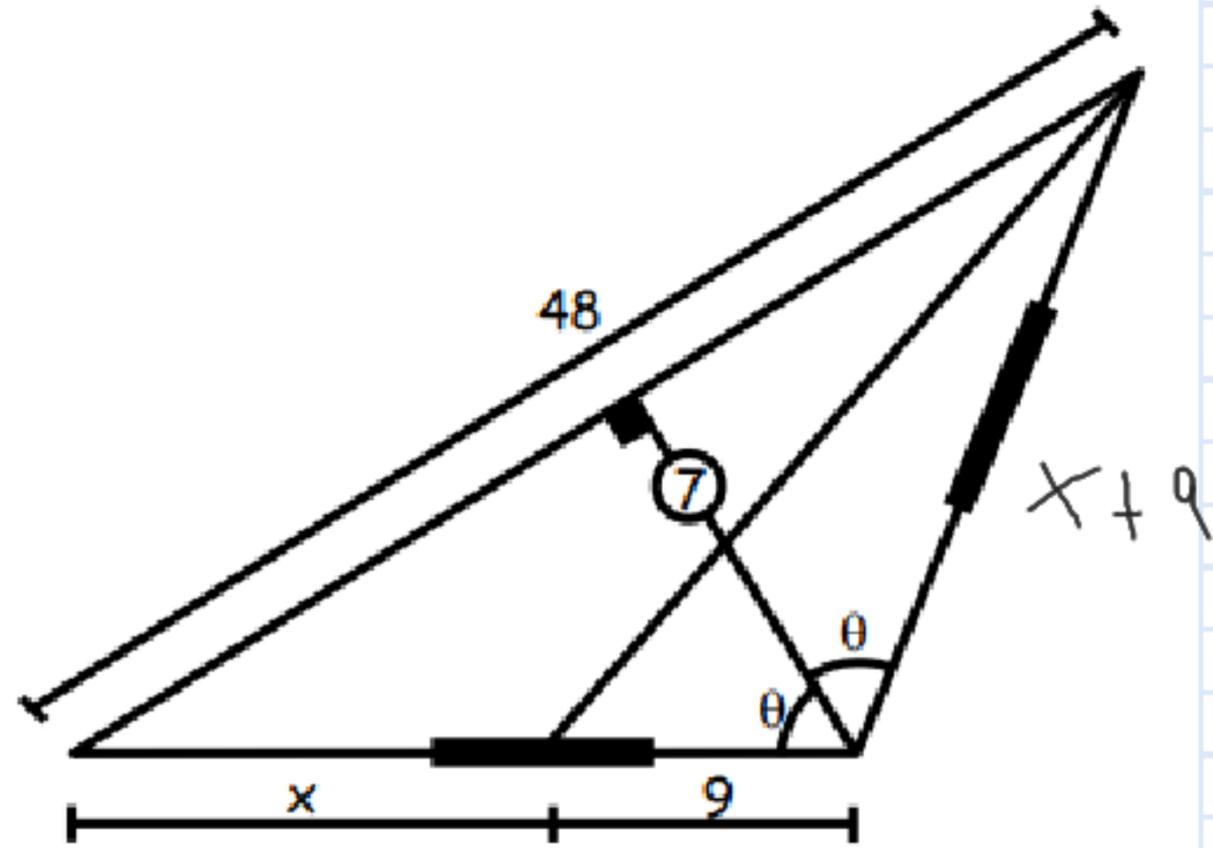


$$3\alpha + 120^\circ = 180^\circ$$
$$3\alpha = 60^\circ$$
$$\alpha = 20^\circ$$

II. Propiedad de la mediatriz

15. Hallar "x"

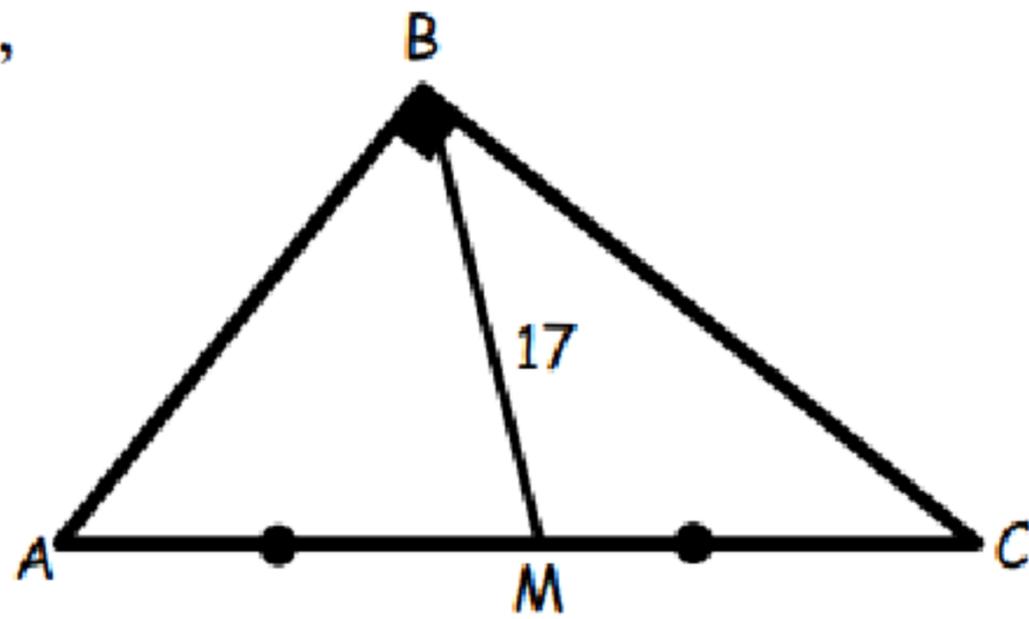
- a) 16
- b) 25
- c) 19
- d) 22
- e) 21



III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

1. Calcular "AC"

- a) 17
- b) 34
- c) 8,5
- d) 20
- e) 30

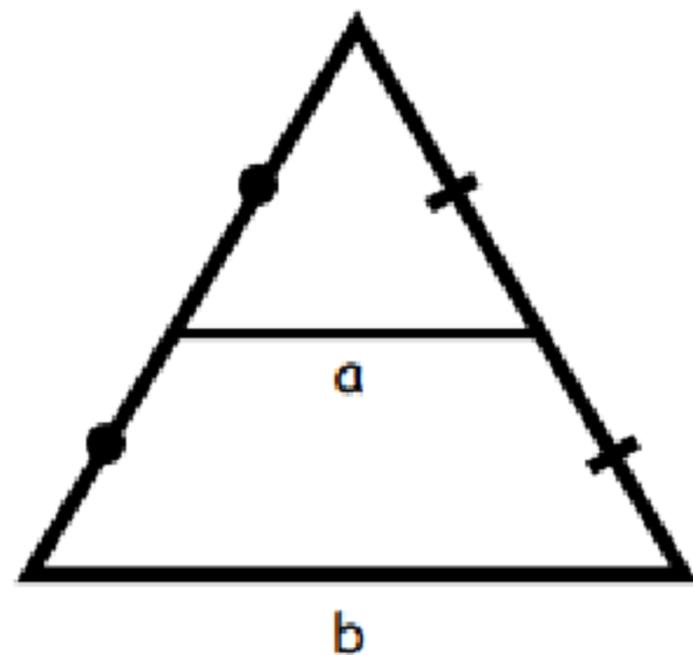


$$\frac{AC}{2} = 17$$

$$AC = 34 //$$

2. Si: $a + b = 24$. Calcular: $a \times b$

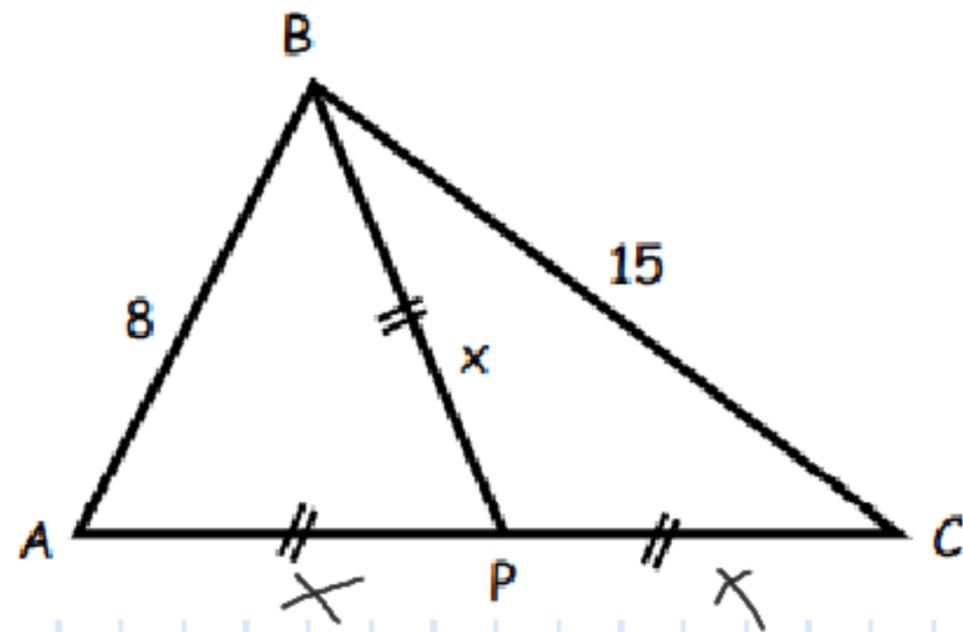
- a) 128
- b) 118
- c) 112
- d) 102
- e) 164



III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

3. Calcular "x"

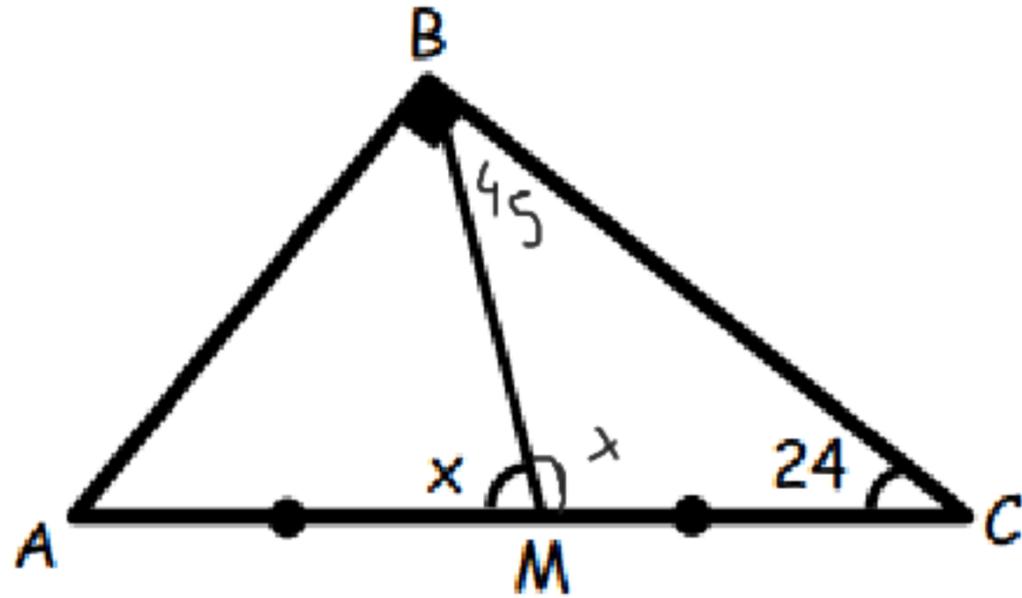
- a) 17
- b) 8,5
- c) 34
- d) 23
- e) 11,5



III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

4. Calcular "x". si BM es mediana

- a) 48
- b) 24
- c) 69
- d) 72
- e) 12



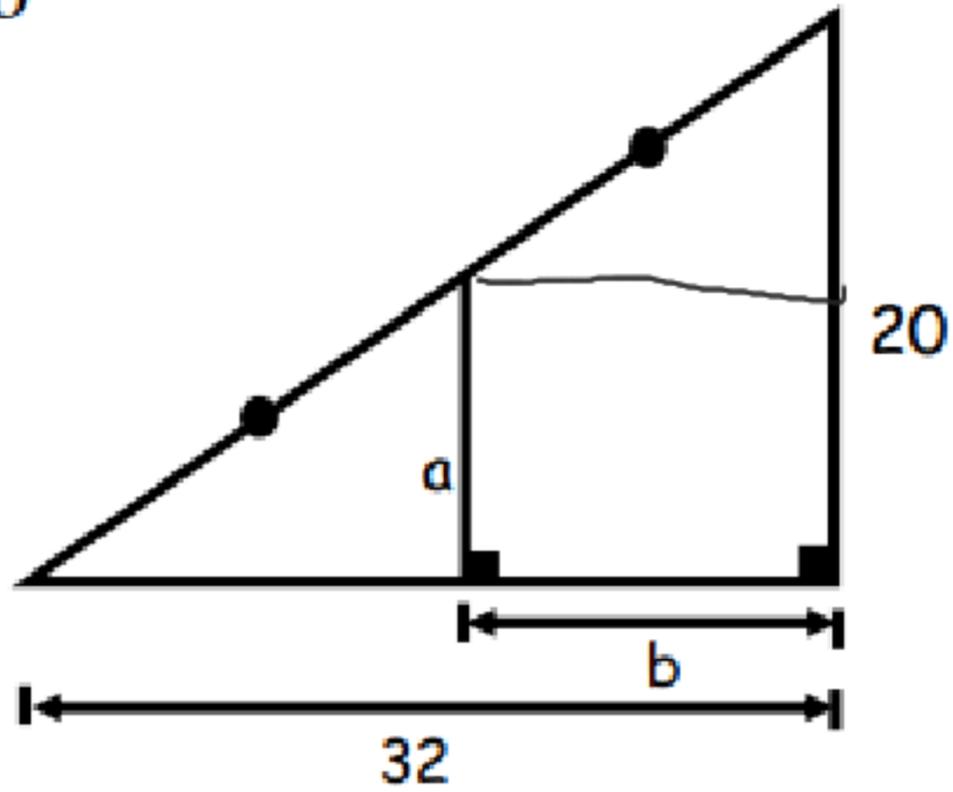
III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

$$45 + 24 + x = 180^\circ$$
$$69 + x = 180^\circ$$
$$x = 111$$

III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

5. Calcular "a+b"

- a) 16
- b) 10
- c) 26
- d) 36
- e) 52



$$b = 16$$

$$32 / 2 = 16$$

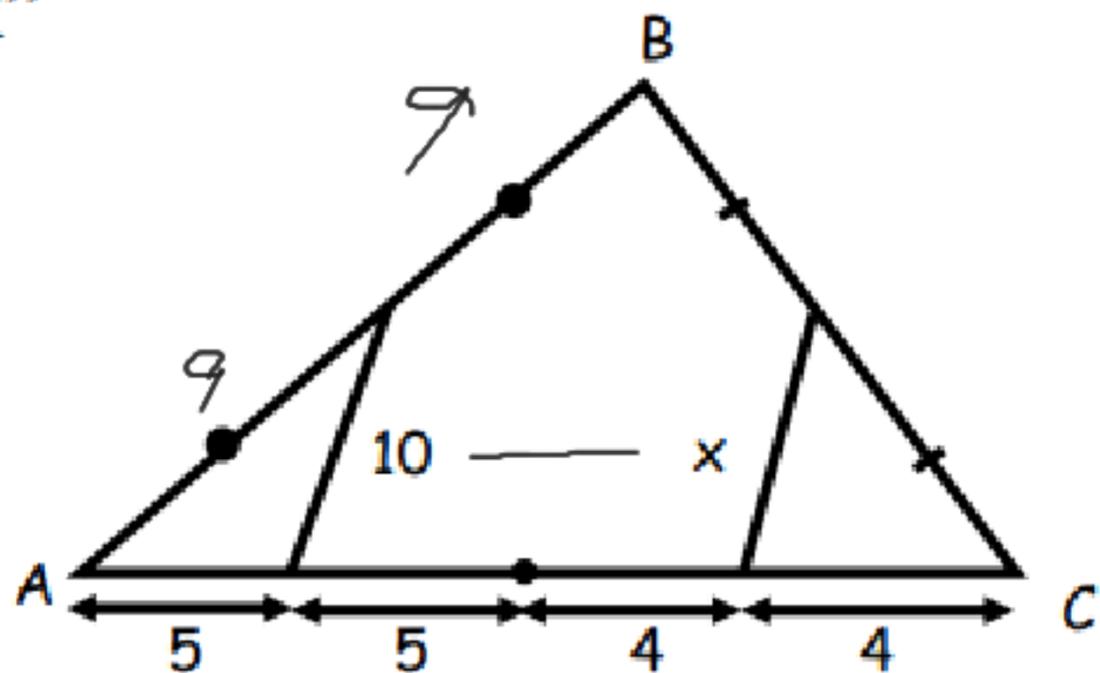
$$20 / 2 = 10$$

$$a = 10$$

$$a + b = 10 + 16 = 26$$

6. Calcular "x"

- a) 10
- b) 20
- c) 5
- d) 40
- e) 15



III. Mediana relativa a la hipotenusa y teorema de los puntos medios.

$$x = 10 =$$