Risolvi il triangolo *ABC*, rettangolo in *C*, noti gli elementi indicati.  $Y = 30^{\circ}$ 

9 
$$b = 15$$
;

$$\alpha = 30^{\circ}$$
.

10 
$$c = 24$$

$$3 = 60^{\circ}$$
.

11 
$$b = 8$$

$$a = 8\sqrt{3}$$
.

$$b = 24$$
.

$$[c = 10\sqrt{3}; a = 5\sqrt{3}; \beta = 60^{\circ}]$$

$$[b = 12\sqrt{3}; a = 12; \alpha = 30^{\circ}]$$

$$[c = 16; \beta = 30^{\circ}; \alpha = 60^{\circ}]$$

$$[a = 24\sqrt{3}; \beta = 30^{\circ}; \alpha = 60^{\circ}]$$

$$b = 15$$
,  $c = 30$ .

 $c = 24$ ;  $c = 48$ ;  $c =$ 

$$S = C \cdot Cood \implies C = \frac{L}{cood} = \frac{15}{cood} = \frac{15}{\sqrt{3}} = \frac{30}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = 10\sqrt{3}$$

$$a = c \cdot \sin d = 10\sqrt{3} \cdot \sin 30^{\circ} = 10\sqrt{3} \cdot \frac{1}{2} = 5\sqrt{3}$$

$$a = lr \cdot tand = > tand = \frac{a}{lr} = \frac{8\sqrt{3}}{8} = \sqrt{3} = > a = 60^{\circ}$$

$$3 = 30 - d = 30$$

$$C = \sqrt{8^2 + (8\sqrt{3})^2} = 8\sqrt{1 + 3} = 16$$

$$b = c \, cond = > \, cond = \frac{0}{c} = \frac{24}{48} = \frac{1}{2} \quad d = 60^{\circ}$$

$$\beta = 30^{\circ} - 60^{\circ} = 30^{\circ}$$

$$\alpha = \sqrt{c^2 - l^2} = \sqrt{48^2 - 24^2} = \sqrt{2^2 \cdot 24^2 - 24^2} = 1$$

**25** 
$$a = 14;$$

$$\beta = \arccos \frac{2}{3}$$
.

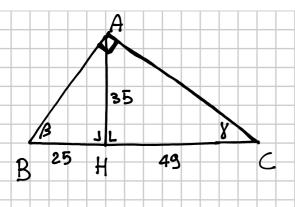
$$\beta = \arccos \frac{2}{3}$$
.  $[c = 21; b \simeq 15,6; \gamma \simeq 42^{\circ}]$ 

$$c = \frac{3}{4} a \qquad b = \frac{14 \cdot \tan \left(au\cos^{\frac{2}{3}}\right)}{2} = \frac{14 \cdot \tan \left(au\cos^{\frac{2}{3}}\right)}{2} = \frac{14 \cdot \frac{\sqrt{1 - \left(\frac{2}{3}\right)^2}}{3}}{2} = \frac{14 \cdot \frac{\sqrt{1 - \left(\frac{2}{3}\right)^2}}{3}}{2} = \frac{14 \cdot \frac{3}{3}}{2} + \frac{14 \cdot \frac{3}{3}}{2} + \frac{14 \cdot \frac{3}{3}}{2} = \frac{14 \cdot \frac{3}{3}}{2} + \frac{14 \cdot \frac{3}{3}}{2} = \frac{14 \cdot \frac{$$



Nel triangolo rettangolo ABC le proiezioni dei cateti sull'ipotenusa BC sono BH = 25 cm e CH = 49 cm. Determina i cateti e gli angoli acuti.

 $[AB \simeq 43 \text{ cm}; AC \simeq 60,2 \text{ cm}; \widehat{B} \simeq 54^{\circ}; \widehat{C} \simeq 36^{\circ}]$ 



$$\overrightarrow{AB} = \sqrt{25^2 + 35^2} = \sqrt{5^2 \cdot 5^2 + 5^2 \cdot 7^2} = 5\sqrt{74}$$

$$\overline{AC} = \sqrt{49^2 + 35^2} = \sqrt{7^2 \cdot 7^2 + 7^2 \cdot 5^2} =$$

$$= 7\sqrt{7^2+5^2} = 7\sqrt{49+25} =$$

$$\tan \beta = \frac{35}{25} = \frac{7}{5}$$