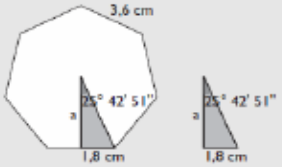
Soluciones

1 **Solución:**

$360° : 14 = 25° 42' 51''$



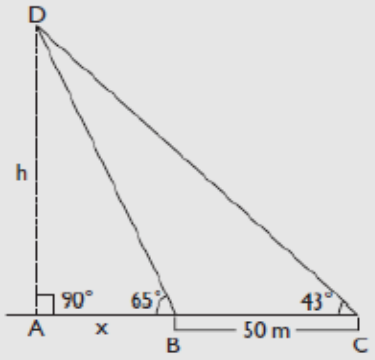
$\text{tg } 25° 42' 51'' = \frac{1,8}{a}$

$a = 3,74$ cm

$\text{Área} = \frac{P \cdot a}{2}$

$\text{Área} = \frac{7 \cdot 3,6 \cdot 3,74}{2} = 47,12 \text{ cm}^2$

2 **Solución:**

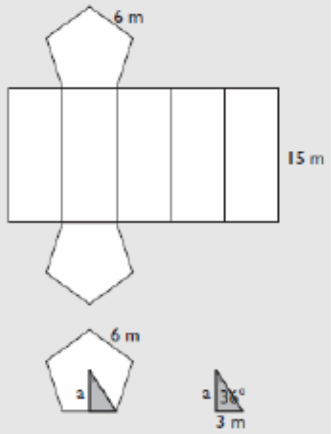


$\left.\begin{array}{l} \text{tg } 65° = \frac{h}{x} \\ \text{tg } 43° = \frac{h}{50 + x} \end{array}\right\}$

$x = 38,47$ m

$h = 82,50$ m

3 **Solución:**



$\text{tg } 36° = \frac{3}{a}$

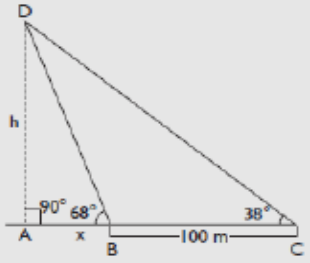
$a = 4,13$ m

$A_B = \frac{5 \cdot 6 \cdot 4,13}{2} = 61,95 \text{ m}^2$

$A_L = 5 \cdot 6 \cdot 15 = 450 \text{ m}^2$

$A_T = 2 \cdot 61,95 + 450 = 573,90 \text{ m}^2$

4 **Solución:**



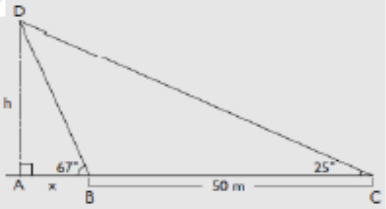
$\left.\begin{array}{l} \text{tg } 68° = \frac{h}{x} \\ \text{tg } 38° = \frac{h}{100 + x} \end{array}\right\}$

$x = 46,13$ m

$h = 114,17$ m

La catedral mide 114,17 m de alto.

5 **Solución:**



$$\left.\begin{array}{l} \text{tg } 67° = \dfrac{h}{x} \\ \text{tg } 25° = \dfrac{h}{50 + x} \end{array}\right\}$$

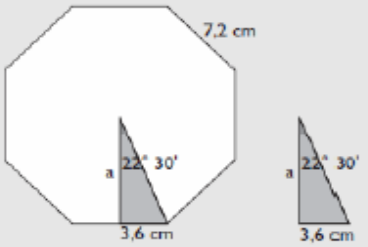
$x = 12{,}34$ m

$h = 29{,}07$ m

La torre de alta tensión mide 29,07 m de alto.

6 **Solución:**

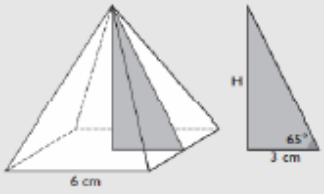
$360° : 16 = 22° 30'$



$$\text{tg } 22° 30' = \frac{3{,}6}{a}$$

$a = 8{,}69$ cm

7 **Solución:**



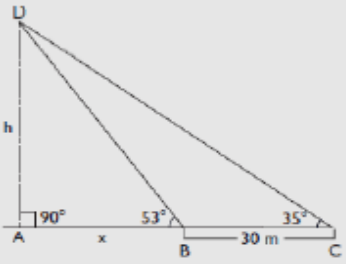
$$\text{tg } 65° = \frac{H}{3}$$

$H = 6{,}43$ cm

$A_B = 6^2 = 36$ cm^2

$$V = \frac{1}{3} \cdot 36 \cdot 6{,}43 = 77{,}16 \text{ cm}^2$$

8 **Solución:**



$$\left.\begin{array}{l} \text{tg } 53° = \dfrac{h}{x} \\ \text{tg } 35° = \dfrac{h}{30 + x} \end{array}\right\}$$

$x = 33{,}51$ m

$h = 44{,}47$ m

El río mide de ancho 33,51 m