

2º BOLETÍN

① $\operatorname{cotang} d = \sqrt{11}$

$$\operatorname{tang} d = \frac{1}{\sqrt{11}} = \frac{\sqrt{11}}{11}$$

$$\frac{\operatorname{sen} d}{\operatorname{Cos} d} = \frac{\sqrt{11}}{11}$$

$$\operatorname{sen} d = \frac{\sqrt{11} \operatorname{Cos} d}{11}$$

$$\operatorname{sen}^2 d + \operatorname{Cos}^2 d = 1$$

$$\left(\frac{\sqrt{11} \operatorname{Cos} d}{11}\right)^2 + \operatorname{Cos}^2 d = 1$$

$$\frac{11 \operatorname{Cos}^2 d}{121} + \operatorname{Cos}^2 d = 1$$

$$11 \operatorname{Cos}^2 d + 121 \operatorname{Cos}^2 d = 121$$

$$132 \operatorname{Cos}^2 d = 121 \quad \operatorname{Cos}^2 d = \frac{121}{132}$$

$$\operatorname{Cos}^2 d = \sqrt{\frac{11}{12}} = \frac{\sqrt{11}}{2\sqrt{3}}$$

$$\operatorname{sen} d = \frac{\sqrt{11}}{11} \cdot \frac{\sqrt{33}}{6} = \frac{\sqrt{363}}{11 \cdot 6} = \frac{11\sqrt{3}}{11 \cdot 6}$$

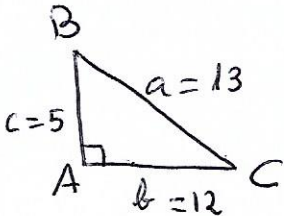
$$\boxed{\operatorname{Cos} d = \frac{\sqrt{33}}{6}}$$

$$\boxed{\operatorname{sen} d = \frac{\sqrt{3}}{6}}$$

$$d = \operatorname{arctang} \sqrt{11}$$

$$\boxed{d = 16^\circ 46' 43''}$$

②



$$\operatorname{sen} \hat{C} = \frac{5}{13}$$

$$\hat{C} = \operatorname{arc} \operatorname{sen} \frac{5}{13}$$

$$\boxed{\hat{C} = 22^\circ 37' 11''}$$

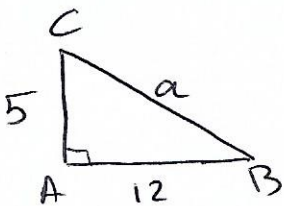
$$\hat{B} = 180 - (\hat{A} + \hat{C}) = 67^\circ 22' 48''$$

$$\operatorname{sen} \hat{B} = \frac{b}{13}$$

$$0,92 = \frac{b}{13}$$

$$\boxed{b = 12}$$

③



$$\operatorname{tang} \hat{B} = \frac{\operatorname{cat. op.}}{\operatorname{cat. cont.}}$$

$$\operatorname{tang} \hat{B} = \frac{5}{12}$$

$$\hat{B} = 22^\circ 37' 11''$$

$$\hat{C} = 180 - (\hat{A} + \hat{B}) = 67^\circ 22' 48''$$

$$a = \sqrt{25 + 144} \quad \boxed{a = 13}$$

$$\operatorname{Area} = \frac{12 \cdot 5}{2} = 30 \text{ u}^2$$