

ALGARROBOS



TRIGONOMETRÍA

$$\sum(x) = ?$$

$$\frac{4}{n} / 2$$

$$\sqrt{n(x+1)}$$

$$h^2 \sqrt{14}$$

$$\pi^2$$

$$\sqrt{14}$$

$$x_{t+1}$$

$$\alpha$$

$$x$$

$$z$$

$$q$$

$$V(x) = \sqrt{q}$$

$$c+d = x$$

$$y = \sqrt{41}$$

$$x+y = ?$$

$$a$$

$$145$$

$$x+y = ?$$

$$a$$

$$\text{Diagram showing a circle with radius } R, center } O, \text{ and a shaded sector } AOB. \text{ The angle } \alpha \text{ is labeled at the top right. The area of the sector is given by } P_G(x) = \frac{\alpha}{2\pi} \times \pi R^2 = \frac{\alpha R^2}{2}. \text{ The area of the triangle } OAB \text{ is given by } \frac{1}{2} R^2 \sin \alpha. \text{ The area of the segment } AB \text{ is the difference between the sector area and the triangle area: } \frac{\alpha R^2}{2} - \frac{1}{2} R^2 \sin \alpha.$$

$$\text{Diagram showing a circle with radius } R, center } O, \text{ and a shaded sector } AOB. \text{ The angle } \alpha \text{ is labeled at the top right. The area of the sector is given by } P_G(x) = \frac{\alpha}{2\pi} \times \pi R^2 = \frac{\alpha R^2}{2}. \text{ The area of the triangle } OAB \text{ is given by } \frac{1}{2} R^2 \sin \alpha. \text{ The area of the segment } AB \text{ is the difference between the sector area and the triangle area: } \frac{\alpha R^2}{2} - \frac{1}{2} R^2 \sin \alpha.$$

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Calcula $\cot(x + 10^\circ)$ si a es agudo, además:

$$\tan(\alpha) = \sqrt{3}$$

$$\sec(26^\circ - x) = \csc a$$

1. $\tan(\alpha) = \sqrt{3} \Rightarrow \alpha = 60^\circ$

$$\cot(60^\circ) = \frac{1}{\sqrt{3}}$$

$\sec(26^\circ - x) = \csc(60^\circ)$

$$26^\circ - x = 30^\circ$$

2. $\cos x = \frac{\sqrt{3}}{2}$

$$x^2 + 25k^2 = 16a^2$$
$$x = 12k$$

REDMI NOTE 8
AI QUAD CAMERA

Si: $\cos x = \frac{5}{13}$, (x agudo);

halla: $M = 4(\cot x + \csc x)$

$\sec(90 - x) = \csc(90)$

$20 = x$

2. $\cos x = \frac{5k}{13k}$ $x^2 + 75k^2 = 169k^2$

$x = 12k$

3. $m = \frac{18}{3} = 6$

3. $\cot(90 - \theta) \cdot \tan \theta = 1$

● REDMI NOTE 8
AI QUAD CAMERA

Para α y θ agudos se cumple: $\tan\alpha\tan\theta = 1$

Indica el valor de verdad de las proposiciones:

- Son ángulos iguales.
- La suma de los ángulos es igual a $\frac{\pi}{2}$ rad.
- $\tan\left(\frac{\alpha+\theta}{2}\right)$ es igual a la unidad.

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$x = \underline{12K}$

1. $m = \frac{18}{3} = 6$

3. $\tan\alpha \cdot \cot(\pi - \theta) = 1$

I. \cancel{x} iguales (F)

II. La suma de los ángulos es $\frac{\pi}{2}$ (U)

III. $\tan(\alpha + \theta/2)$ es 1 (U)

1. $c + 975 + c + 925 + c + 965 + c + 65$

REDMI NOTE 8
AI QUAD CAMERA

Determinar: $E = (\tan 25^\circ + \cot 65^\circ) \cdot \cot 25^\circ$

3. $\tan \alpha \cdot \cot(\pi - \alpha) = 1$

I. X iguales (F)

II. La suma de los ángulos es $\frac{\pi}{2}$. (V)

III. $\tan(\alpha + \pi/2)$ es 1 (V)

4. $E = \cot 47.5^\circ \cdot \tan 25^\circ + \cot 46.5^\circ \cdot \tan 65^\circ$
 $1+1=2$

5. $\tan(2x) \cdot \csc(90^\circ - x) = 1 \quad \cos^2(30^\circ)$
 $2x = 90^\circ - 4 \quad (2)^2 + (W_2)^2 =$

● REDMI NOTE 8
∞ AI QUAD CAMERA

Si : $\sin 2x \sec y = 1$, Determinar :

$$P = \csc^2\left(\frac{2x+y}{3}\right) + \csc^2\left(\frac{2x+y}{2}\right)$$

I. 4 iguales (F)

II. La suma de los ángulos es π . (V)

III. $\tan(2x+y/2)$ es 1 (V)

IV.

$$E = C + 975.4 + 23 + C + 965.4 + 65$$

$$1+1=2$$

$$5 \quad \sin(2x) \csc(90-y) = 1 \quad \csc^2(30^\circ) + \csc^2(45^\circ)$$

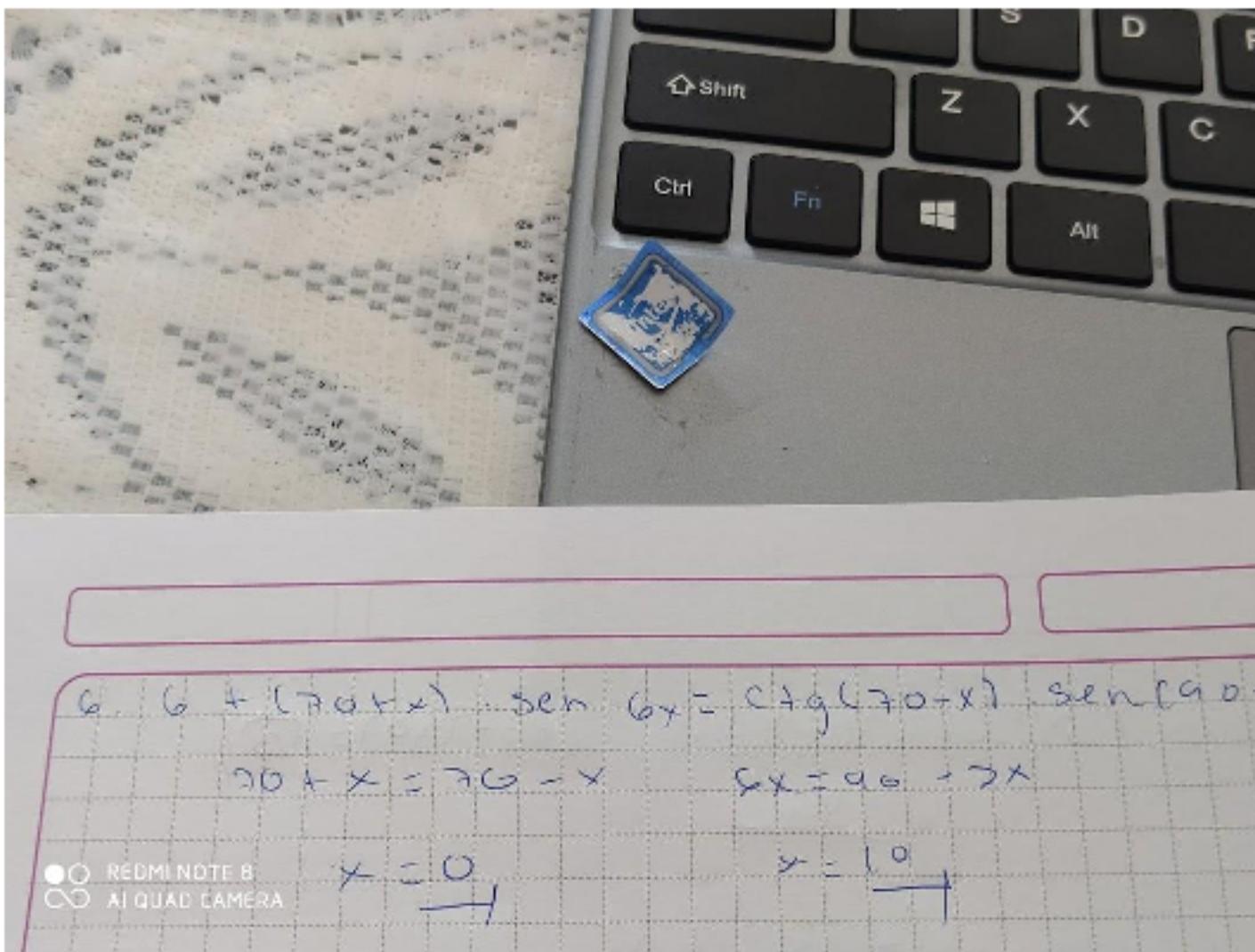
$$2x = 90 - 4$$

$$(2)^2 + (45)^2 = 64$$

$$2x + 4y = 90$$

Irish color
premium

$$\operatorname{tg}(20^\circ + x) \operatorname{sen} 6x = \operatorname{ctg}(70^\circ - x) \cos 3x$$



Si: $\sin(\alpha - 20^\circ) = \cos(\theta - 30^\circ)$, “ α ” y “ θ ”
ángulos agudos , Determinar :

$$A = \frac{\tan\left(\frac{\alpha+\theta}{4}\right) + \cot\left(\frac{\alpha+\theta}{2}\right)}{\cot(\alpha+\theta - 85^\circ) + \tan(\alpha+\theta - 120^\circ)}$$

6. $6 + (70+x) \cdot \sin 6x = \cot(70-x) \sin(90-3x)$
 $70+x = 70-x \quad 5x = 90 - 7x$
 $x = 0 \quad x = 10^\circ$

7. $\sin(\alpha - 20^\circ) = \cos(\theta - 30^\circ)$

$A = \frac{\tan\left(\frac{\alpha+\theta}{4}\right) + \cot\left(\frac{\alpha+\theta}{2}\right)}{\cot(\alpha+\theta - 85^\circ) + \tan(\alpha+\theta - 120^\circ)}$

$\frac{\tan(35) + \cot(10^\circ)}{2} = 1$

REDMI NOTE 8
AI QUAD CAMERA

Si: $\sec \alpha = \csc 2\phi$, Determinar:

$$R = \tan \left[\frac{\alpha}{2} + \phi \right] + \sec(330^\circ - 3\alpha - 6\phi)$$

$A = \tan(\alpha + \phi) + \cot(\frac{\alpha + \phi}{2}) / \cot$

$\frac{\tan(3\alpha) + \cot(4\phi)}{\cot(5\alpha) + \tan(2\phi)} = 4$

8.

$3(\alpha + 2\phi) = 90^\circ \quad 3\alpha + 6\phi = 90^\circ$

$R = 1 + 2$

$R = 3$

● REDMI NOTE 8
∞ AI QUAD CAMERA

$$\text{Si: } \sin(4x+10^\circ) \tan(3x+30^\circ) \sec x = \cot(60^\circ - 3x)$$

$$\text{Determinar: } P = 6\tan^2(3x-18^\circ) + 7\tan^6(x+29^\circ)$$

$$\begin{aligned}3(a+2\phi) &= 90^\circ & 3(a+6\phi) &= 170^\circ \\R &= 1+2\sqrt{3} & R &= \underline{3} \\R &= 7+4\sqrt{3} & \sin(a+10^\circ) \cdot \csc(90^\circ - y) &= 1 \\P &= 7+4\sqrt{3} & \sin(a+10^\circ) \cdot \csc(90^\circ - y) &= 1 \\6 \cdot \frac{\sqrt{3}}{3} + 7(1) & & 5r &= 80 \\a &= \underline{P} & r &= 16\end{aligned}$$