



COLEGIO PREMIUM

INICIAL - PRIMARIA - SECUNDARIA

PREMIUM

¡Educación Emprendedora con Visión Universitaria!

R.D.R. 1169

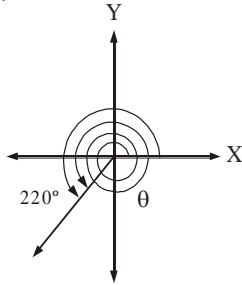
Curso: TRIGONOMETRÍA

2do Secundaria - 2020

TEMA N° 06

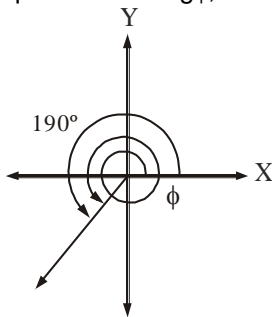
REDUCCIÓN AL PRIMER CUADRANTE

1. Calcular el equivalente de $\csc\theta$, si:



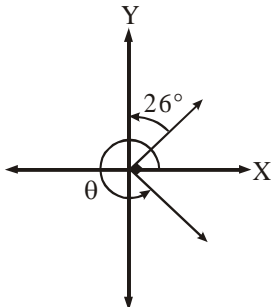
Rpta. _____

2. Calcular el equivalente de $\operatorname{tg}\phi$, si:



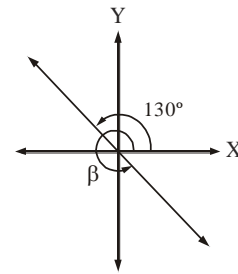
Rpta. _____

3. Calcular $\operatorname{tg}\theta$.



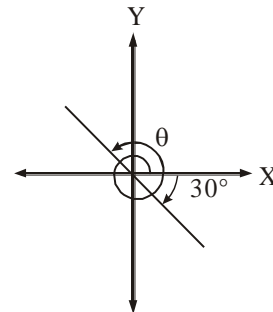
Rpta. _____

4. Calcular el equivalente de $\operatorname{ctg}\beta$, si:



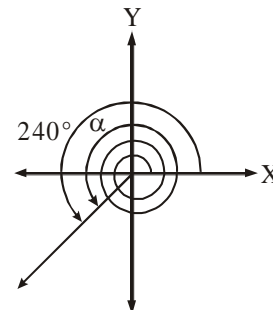
Rpta. _____

5. Determinar $\operatorname{tg}\theta$.



Rpta. _____

6. Calcular $\cos\alpha$.



Rpta. _____

7.
$$I = \left(\frac{\text{sen}(90^\circ + x)}{\text{cos}(-x)} + \frac{\text{tg } 240^\circ}{\text{tg } 60^\circ} \right)^2$$

Rpta. _____

8. Calcular:

$$C = \frac{\text{sen}(-50^\circ)}{\text{sen } 50^\circ} + \frac{\text{sen}(-x)}{\text{sen } x} + 2$$

Rpta. _____

9. Calcular:

$$P = \frac{\text{sen}(-x)}{\text{sen } x} + \frac{\text{cos}(x)}{\text{cos } x} + \frac{\text{tg}(-x)}{\text{tg } x}$$

Rpta. _____

10. Calcular:

$$M = \frac{\text{sen}(-x)}{\text{cos}(90^\circ + x)} + \frac{\text{tg}(180^\circ + x)}{\text{ctg}(270^\circ + x)}$$

Rpta. _____

11. Calcular:

$$S = \frac{\text{tg}(180^\circ - x)}{\text{tg}(-x)} + \frac{\text{sec}(180^\circ + \theta)}{\text{csc}(90^\circ + \theta)}$$

Rpta. _____

12. Simplificar:

$$M = \text{sen } 127^\circ + \text{cos } 143^\circ$$

Rpta. _____

13. Calcular:

$$W = \frac{\text{tg}(180^\circ + x)}{\text{tg } x} + \frac{\text{cos}(90^\circ + x)}{\text{sen } x}$$

- A) 0 B) 2
C) -2 D) 1

14. Reducir:

$$E = \frac{\text{sen}(-x)}{\text{sen}(x)} + 2 \frac{\text{tg}(-x)}{\text{tg } x} + 3 \frac{\text{sen}(180^\circ - x)}{\text{sen } x}$$

- A) 6 B) 3
C) 1 D) 0

15. Reducir:

$$M = \frac{\text{sen}(90^\circ + x)}{\text{cos}(-x)} + 1$$

- A) 2 B) 0
C) -2 D) 0,5

16. Calcular:

$$E = \frac{\text{sen}(-x)}{\text{sen}(180^\circ + x)} + \frac{\text{tg}(90^\circ + x)}{\text{ctg } x}$$

- A) 1 B) 0
C) -2 D) 2

17. Calcular:

$$\text{tg } 225^\circ$$

Rpta. _____

18. Calcular:

$$M = \text{sen}120^\circ + \text{cos}225^\circ$$

Rpta. _____

19. Simplificar:

$$V = \frac{\text{tg}(90^\circ + x)}{\text{ctg}(270^\circ - x)}$$

Rpta. _____

20. Simplificar:

$$R = \frac{\text{sen}(90^\circ - x)}{\text{sen}(270^\circ + x)} + \frac{\text{tg}(270^\circ - x)}{\text{tg}(90^\circ + x)}$$

Rpta. _____

21. Reducir: $P = \frac{\text{sen}(-x)}{\text{sen } x} + \frac{\text{cos}(-x)}{\text{cos } x}$

Rpta. _____

22. Calcular: $K = \frac{\text{tg}(-60^\circ)}{\text{cos}(-45^\circ)}$

Rpta. _____

23. Calcular: $M = \text{sen}(-30^\circ) \times \text{cos}(-45^\circ)$

Rpta. _____

24. Calcular: $E = \text{cos}(-60^\circ) + \text{tg}(-37^\circ)$

Rpta. _____