

1. Resuelve las siguientes ecuaciones:

a) [R] $\operatorname{sen} 2x = \frac{1}{2}$

b) [R] $\cos x = -\cos 22$

c) [R] $\operatorname{tg} x = \sqrt{3}$

d) [R] $\operatorname{sen} x = \cos 32$

Resuelve las siguientes ecuaciones:

2. [R] $\operatorname{tg} x = \operatorname{sen} x$

3. [R] $\cos x + \operatorname{sen} x = \sec x$

4. [R] $\operatorname{sen}^2 x - \cos^2 x = 0$

5. [R] $2\cos^2 x - 3\operatorname{sen} x = 3$

6. [R] $\operatorname{sen} x + \cos x = 1$

7. [R] $\cos x - \operatorname{sen} x = 0$

Resuelve los siguientes sistemas (ángulos del primer giro):

8. [R]
$$\left. \begin{array}{l} x + y = 90 \\ \operatorname{sen} x + \cos y = \sqrt{2} \end{array} \right\}$$

9. [R]
$$\left. \begin{array}{l} \operatorname{sen}(x-y) = \frac{1}{2} \\ \cos(x+y) = 0 \end{array} \right\}$$

10. [R]
$$\left. \begin{array}{l} \operatorname{sen} x + \cos y = \frac{1}{2} \\ \operatorname{csc} x + \sec y = -1 \end{array} \right\}$$

— Soluciones —

1.a) 15+180k; 75+180k 1.b) 158+360k; 202+360k 1.c) 60+180k 1.d) 58+360k; 122+360k 2. 180k 3. 180k; 135+180k 4. 45+90k 5. 210+180k; 270+360k 6. 360k; 90+360k 7. 45+180k 8. (45,45) 9. (60,30), (150,120), (120,330), (210,60) 10. (90,120), (90,240), (210,0), (330,0)