

Nombre: _____

4 de mayo de 2021

Repaso Examen Final

I. Utiliza las desdefiniciones o las identidades para hallar el valor exacto de cada una de las cinco funciones trigonométricas que faltan.

a. $\sec\Phi = \frac{\sqrt{5}}{3}$ (10pts)

i. $\sin\Phi =$

ii. $\cos\Phi =$

iii. $\tan\Phi =$

iv. $\csc\Phi =$

v. $\cot\Phi =$

b. $\sin\Phi = \frac{2\sqrt{3}}{5}$ (10 pts)

i. $\cos\Phi =$

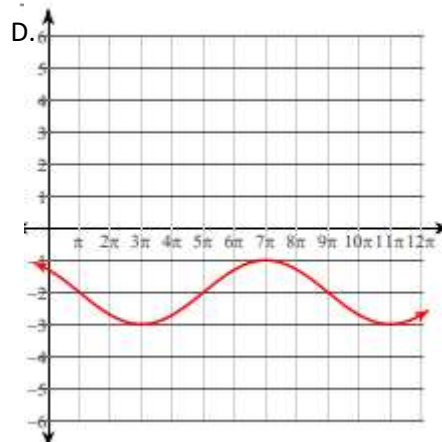
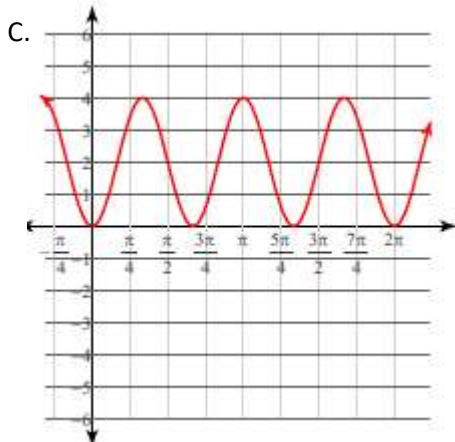
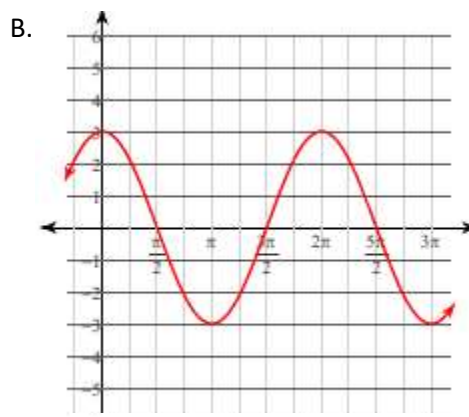
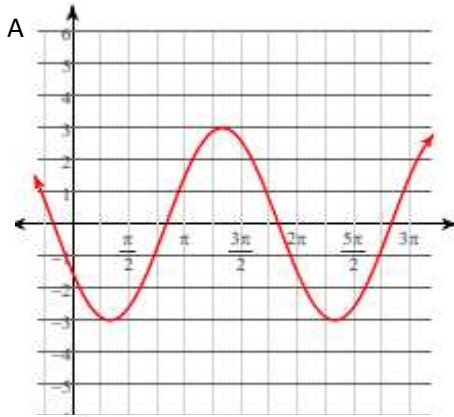
ii. $\tan\Phi =$

iii. $\csc\Phi =$

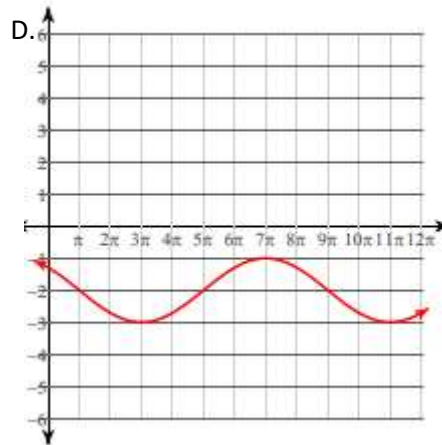
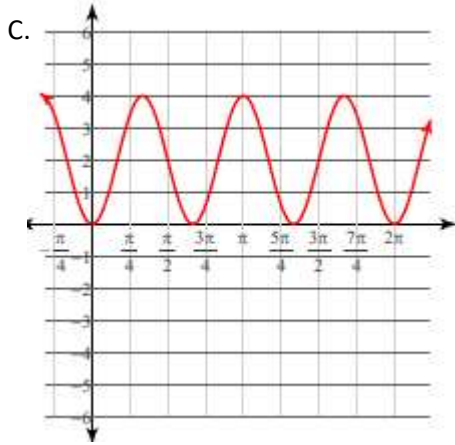
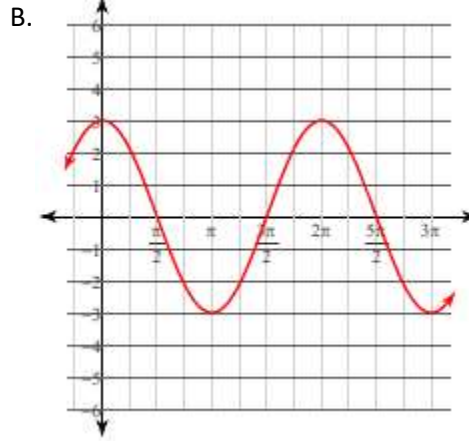
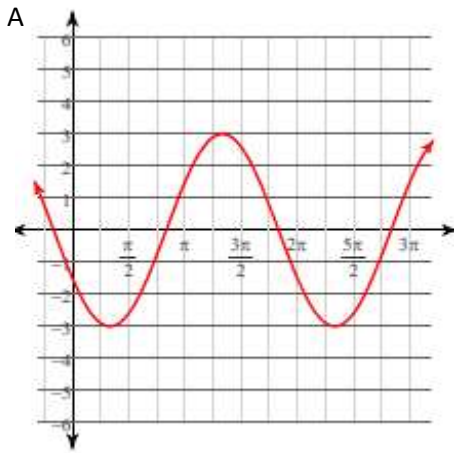
iv. $\sec\Phi =$

v. $\cot\Phi =$

II. Identifica la gráfica que corresponde a: $y = 3\sin\left(\phi - \frac{5\pi}{6}\right)$ (10 pts)



III. Identifica la gráfica que corresponde a: $y = 3 \cos \emptyset$ (10 pts)



IV. Establece la identidad. Muestra todos los procedimientos. (10 pts c/u)

a.
$$\frac{\cos v}{1+\sin} + \frac{1+\sin}{\cos v} = 2\sec v$$

b.
$$\frac{\tan \emptyset + \sec \emptyset - 1}{\tan \emptyset - \sec \emptyset + 1} = \tan \emptyset + \sec \emptyset$$

c.
$$\frac{1-\tan^2 \emptyset}{1+\tan^2 \emptyset} + 1 = 2\cos^2 \emptyset$$