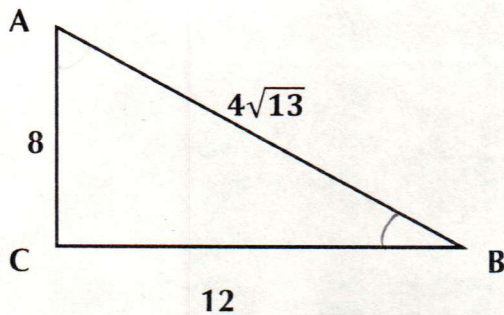


Unit 6 Review – Unit Circle

1. Write a ratio for all six trig functions. Write in exact, fully simplified form. $\angle C = 90^\circ$.



a. $\sin A =$

$$\frac{12}{4\sqrt{13}} = \frac{3}{\sqrt{13}} = \frac{3\sqrt{13}}{13}$$

b. $\cos A =$

$$\frac{8}{4\sqrt{13}} = \frac{2}{\sqrt{13}} = \frac{2\sqrt{13}}{13}$$

c. $\cot A =$

$$\frac{8}{12} = \frac{2}{3}$$

d. $\csc B =$

$$\frac{4\sqrt{13}}{8} = \frac{\sqrt{13}}{2}$$

e. $\sec B =$

$$\frac{4\sqrt{13}}{12} = \frac{\sqrt{13}}{3}$$

f. $\tan B =$

$$\frac{8}{12} = \frac{2}{3}$$

Using a Unit Circle, find the exact value of the following.

2. $\tan 510^\circ =$

3. $\sec -330^\circ =$

4. $\sin 405^\circ =$

5. $\cos -360^\circ =$

6. $\cot 660^\circ =$

7. $\csc 315^\circ =$

8. $\cos \frac{-7\pi}{4} =$

9. $\cot \frac{11\pi}{6} =$

10. $\csc \frac{4\pi}{3} =$

11. $\tan \frac{5\pi}{6} =$

12. $\sin \frac{-3\pi}{4} =$

13. $\sec 540^\circ =$

14. $\tan \frac{7\pi}{6} =$

15. $\sec \frac{-\pi}{2} =$