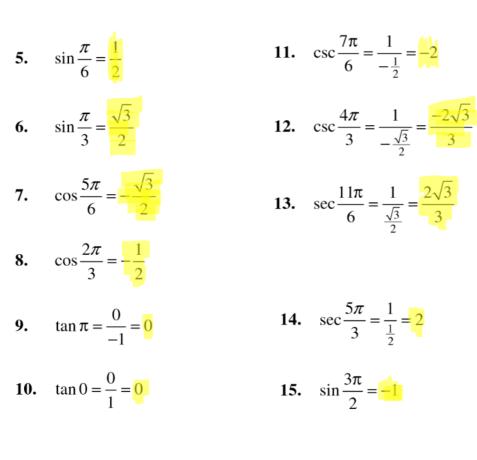
## **4.2A HW Answers**

Tuesday, October 10, 2017 3:10 PM



$$16. \quad \cos\frac{3\pi}{2} = 0$$

- 17.  $\sec\frac{3\pi}{2} = \text{undefined}$
- 18.  $\tan\frac{3\pi}{2} = \text{undefined}$

**19. a.** 
$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

**b.** 
$$\cos\left(-\frac{\pi}{6}\right) = \cos\frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

**20.** a.  $\cos \frac{\pi}{3} = \frac{1}{2}$ 

21. a. 
$$\sin \frac{5\pi}{6} = \frac{1}{2}$$
  
b.  $\sin \left(-\frac{5\pi}{6}\right) = -\sin \frac{5\pi}{6} = -\frac{1}{2}$   
22. a.  $\sin \frac{2\pi}{3} = \frac{\sqrt{3}}{2}$   
b.  $\sin \left(-\frac{2\pi}{3}\right) = -\sin \frac{2\pi}{3} = -\frac{\sqrt{3}}{2}$   
23. a.  $\tan \frac{5\pi}{3} = -\frac{-\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\sqrt{3}$   
b.  $\tan \left(-\frac{5\pi}{3}\right) = -\tan \frac{5\pi}{2} = -\sqrt{3}$ 

**20. a.** 
$$\cos \frac{\pi}{3} = \frac{1}{2}$$
  
**b.**  $\cos \left(-\frac{\pi}{3}\right) = \cos \frac{\pi}{3} = \frac{1}{2}$ 

**b.** 
$$\tan\left(-\frac{5\pi}{3}\right) = -\tan\frac{5\pi}{3} = \sqrt{3}$$

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24. a. 
$$\tan \frac{11\pi}{6} = \frac{-\frac{1}{2}}{\frac{\sqrt{3}}{2}} = -\frac{\sqrt{3}}{3}$$
  
b.  $\tan \left(-\frac{11\pi}{6}\right) = -\tan \frac{11\pi}{6} = \frac{\sqrt{3}}{3}$