1. $\frac{-\sqrt{2}-\sqrt{6}}{4}$

2. $\frac{\sqrt{6}-\sqrt{2}}{4}$

3. $\boxed{2+\sqrt{3}}$

4. $\boxed{\frac{\sqrt{2}+\sqrt{6}}{4}}$

5. $\frac{\sqrt{6}+\sqrt{2}}{4}$

6. $\boxed{2-\sqrt{3}}$

7. $\frac{-17}{6}$

8. $\frac{84}{85}$

9. $\frac{1}{8}$

10. $\frac{-33}{65}$

11. $\sin \frac{3\pi}{2} \cos\theta - \cos \frac{3\pi}{2} \sin\theta = -\cos\theta$

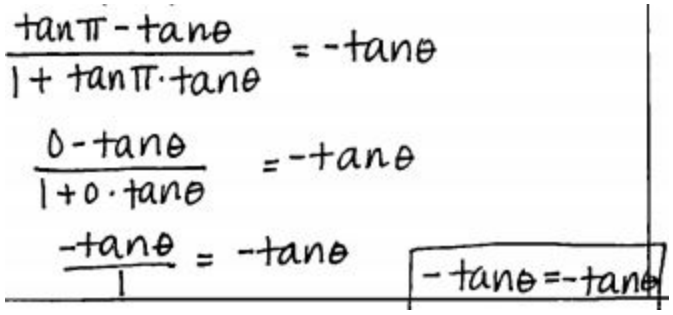
$-1 \cdot \cos\theta - 0 \cdot \sin\theta = -\cos\theta$

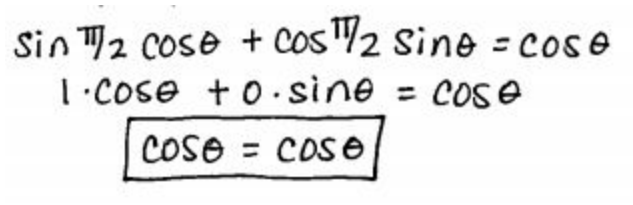
$\boxed{-\cos\theta = -\cos\theta}$

12. $\cos \frac{\pi}{2} \cos\theta + \sin \frac{\pi}{2} \sin\theta = \sin\theta$

$0 \cdot \cos\theta + 1 \cdot \sin\theta = \sin\theta$

$\boxed{\sin\theta = \sin\theta}$

13. 
$\frac{\tan\pi - \tan\theta}{1 + \tan\pi \cdot \tan\theta} = -\tan\theta$
$\frac{0 - \tan\theta}{1 + 0 \cdot \tan\theta} = -\tan\theta$
$\frac{-\tan\theta}{1} = -\tan\theta$
$-\tan\theta = -\tan\theta$

14. 
$\sin\pi/2\cos\theta + \cos\pi/2\sin\theta = \cos\theta$
$1 \cdot \cos\theta + 0 \cdot \sin\theta = \cos\theta$
$\cos\theta = \cos\theta$