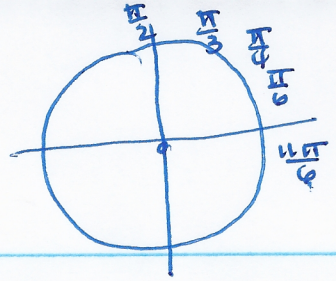
Adv

4.2



p. 299 # 5-22 all

5. $t = \frac{\pi}{4}$ $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

6. $t = \frac{\pi}{3}$ $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$

7. $t = \frac{7\pi}{6}$ $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$

8. $t = \frac{5\pi}{4}$ $\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$

9. $t = \frac{4\pi}{3}$ $\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$

10. $t = \frac{5\pi}{3}$ $\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$

11. $t = \frac{3\pi}{2}$ $(0, -1)$

12. $t = \pi$ $(-1, 0)$

13. $t = \frac{\pi}{4}$
$\sin t = \frac{\sqrt{2}}{2}$
$\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$
$\tan \frac{\pi}{4} = 1$

14. $t = \frac{\pi}{3}$
$\sin t = \frac{\sqrt{3}}{2}$
$\cos \frac{\pi}{3} = \frac{1}{2}$
$\tan \frac{\pi}{3} = \sqrt{3}$

15. $t = -\frac{\pi}{6}$
$\sin -\frac{\pi}{6} = -\frac{1}{2}$
$\cos -\frac{\pi}{6} = \frac{\sqrt{3}}{2}$
$\tan -\frac{\pi}{6} = -\frac{\sqrt{3}}{3}$

16. $t = -\frac{\pi}{4}$
$\sin\theta = -\frac{\sqrt{2}}{2}$
$\cos -\frac{\pi}{4} = \frac{\sqrt{2}}{2}$
$\tan -\frac{\pi}{4} = -1$

17. $t = -\frac{7\pi}{4}$
$\sin -\frac{7\pi}{4} = \frac{\sqrt{2}}{2}$
$\cos -\frac{7\pi}{4} = \frac{\sqrt{2}}{2}$
$\tan -\frac{7\pi}{4} = +1$

18. $t = \frac{-4\pi}{3}$
$\sin -\frac{4\pi}{3} = \frac{\sqrt{3}}{2}$
$\cos -\frac{4\pi}{3} = -\frac{1}{2}$
$\tan -\frac{4\pi}{3} = -\sqrt{3}$

19. $t = t = \frac{11\pi}{6}$
$\sin \frac{11\pi}{6} = \frac{-1}{2}$
$\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$
$\tan\theta = -\frac{\sqrt{3}}{3}$

20. $t = \frac{5\pi}{3}$
$\sin\theta = \frac{-\sqrt{3}}{2}$
$\cos\theta = \frac{1}{2}$
$\tan\theta = -\sqrt{3}$

21. $t = -\frac{3\pi}{2}$
$\sin\theta = 1$
$\cos\theta = 0$
$\tan\theta =$ undefined

22. $t = -2\pi$
$\sin\theta = 0$
$\cos\theta = 1$
$\tan\theta = 0$