7. $\sin 150° = \sin 30° = \frac{1}{2}$

9. $\sin 135° = \sin 45° = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

11. $\sin(-60°) = -\sin 60° = -\frac{\sqrt{3}}{2}$

13. $\csc(-630°) = \csc 90° = \frac{1}{\sin 90°} = 1$

15. $\cos 570° = -\cos 30° = -\frac{\sqrt{3}}{2}$

17. $\tan 750° = \tan 30° = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

19. $\sin\left(\frac{2\pi}{3}\right) = \sin\left(\frac{\pi}{3}\right) = \frac{\sqrt{3}}{2}$

21. $\sin\left(\frac{3\pi}{2}\right) = -\sin\left(\frac{\pi}{2}\right) = -1$

23. $\cos\left(-\frac{7\pi}{3}\right) = \cos\left(\frac{\pi}{3}\right) = \frac{1}{2}$

25. $\sec\left(\frac{17\pi}{3}\right) = \sec\left(\frac{\pi}{3}\right) = \frac{1}{\cos\left(\frac{\pi}{3}\right)} = 2$

27. $\cot\left(-\frac{\pi}{4}\right) = -\cot\left(\frac{\pi}{4}\right) = \frac{-1}{\tan\left(\frac{\pi}{4}\right)} = -1$

29. $\tan\left(\frac{5\pi}{2}\right) = \tan\left(\frac{\pi}{2}\right)$ which is undefined

31. Since $\sin\theta < 0$ and $\cos\theta < 0$, we have θ in quadrant III.

33. $\sec\theta > 0 \Rightarrow \cos\theta > 0$. Also $\tan\theta < 0 \Rightarrow \frac{\sin\theta}{\cos\theta} < 0 \Leftrightarrow \sin\theta < 0$ (since $\cos\theta > 0$). Since $\sin\theta < 0$ and $\cos\theta > 0$, we get θ is in quadrant IV.

41. $\sin\theta = \frac{3}{5}$. Then $x = -\sqrt{5^2 - 3^2} = -\sqrt{16} = -4$, since θ in quadrant II. Thus, $\cos\theta = -\frac{4}{5}$, $\tan\theta = -\frac{3}{4}$, $\csc\theta = \frac{5}{3}$, $\sec\theta = -\frac{5}{4}$, $\cot\theta = -\frac{4}{3}$.