

Mr. Ward Answer Key

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10. $\sin 150^\circ$
 $= 1/2$

11. $\tan 315^\circ$
 $= \frac{-\sqrt{2}/2}{\sqrt{2}/2} = -1$

12. $\cot 11\pi/6$ (330°)
 $= \frac{\cos}{\sin} = \frac{\sqrt{3}/2}{-1/2} = -\sqrt{3}$

13. $\cos 2\pi/3$
 $= -1/2$

14. 240°
 $\sin = -\sqrt{3}/2$
 $\cos = -1/2$
 $\tan = \sqrt{3}$

15. 120°
 $\sin = \sqrt{3}/2$
 $\cos = -1/2$
 $\tan = -\sqrt{3}$

16. $7\pi/4$ (315°)
 $\sin = -\sqrt{2}/2$
 $\cos = \sqrt{2}/2$
 $\tan = -1$

17. $\pi/3$ (60°)
 $\sin = \sqrt{3}/2$
 $\cos = 1/2$
 $\tan = \sqrt{3}$

27. $\tan 300^\circ$
 $= \frac{-\sqrt{3}/2}{1/2} = -\sqrt{3}$

28. $\sin 120^\circ$
 $= \sqrt{3}/2$

29. $\cos 5\pi/6$ (150°)
 $= -\sqrt{3}/2$

30. $\sec \pi/3$
 $= \frac{1}{\cos} = \frac{1}{1/2} = 2$

31. 225°
 $\sin = -\sqrt{2}/2$
 $\cos = -\sqrt{2}/2$
 $\tan = 1$

32. 135°
 $\sin = \sqrt{2}/2$
 $\cos = -\sqrt{2}/2$
 $\tan = -1$

33. $11\pi/6$ (330°)
 $\sin = -1/2$
 $\cos = \sqrt{3}/2$
 $\tan = -\sqrt{3}/3$

34. $-5\pi/6$ (-150°)
(same as 210°)

$\sin = -1/2$
 $\cos = -\sqrt{3}/2$
 $\tan = \sqrt{3}/3$