

**SM3H 6.4 odd answers**

1.  $\sin A = \frac{6\sqrt{85}}{85}$        $\cos A = \frac{7\sqrt{85}}{85}$

$\tan A = \frac{6}{7}$        $\sec A = \frac{\sqrt{85}}{7}$

$\csc A = \frac{\sqrt{85}}{6}$        $\cot A = \frac{7}{6}$

3.  $\cos \alpha = -\frac{3\sqrt{13}}{13}$        $\sec \alpha = -\frac{\sqrt{13}}{3}$

$\sin \alpha = -\frac{2\sqrt{13}}{13}$        $\csc \alpha = -\frac{\sqrt{13}}{2}$

$\tan \alpha = \frac{2}{3}$        $\cot \alpha = \frac{3}{2}$

5. 0

7. undefined

9.  $\frac{\sqrt{2}}{2}$

11. -1

13.  $-\frac{\sqrt{2}}{2}$

15.  $-\sqrt{3}$

17.  $-\frac{\sqrt{3}}{2}$

19.  $\frac{2\sqrt{3}}{3}$

21.  $\approx 0.9866$ 

23.  $\sqrt{3}$

25.  $\frac{\sqrt{3}}{2}$

27.  $\frac{1}{2}$

29.  $\frac{4}{3}$

31.  $\frac{\sqrt{5}}{3}$

33.  $-\frac{2\sqrt{21}}{21}$

35. QI

37.  $195^\circ$ 

39. 178.5 miles per hour

41.  $\frac{\sqrt{3}}{3}$

43.  $-\frac{1}{2}$

45.  $-\sqrt{3}$

47. 1

49.  $-\frac{\sqrt{3}}{3}$

51.  $\frac{\sqrt{3}}{2}$