

**SM3H—odd answers for 6.3**

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

3.  $\frac{\sqrt{5}}{10}$

5.  $\frac{\sqrt{6}}{3}$

7.  $\sqrt{2}$

9.  $n = 5\sqrt{6}, m = 10\sqrt{3}$

11.  $m = 2, n = \frac{2\sqrt{3}}{3}$

13.  $a = 6\sqrt{3}, b = 9$

15.  $\sin A = \frac{4}{5}$        $\cos A = \frac{3}{5}$

$\tan A = \frac{4}{3}$        $\sec A = \frac{5}{3}$

$\csc A = \frac{5}{4}$        $\cot A = \frac{3}{4}$

17.  $\sin A = \frac{\sqrt{5}}{5}$        $\cos A = \frac{2\sqrt{5}}{5}$

$\tan A = \frac{1}{2}$        $\sin B = \frac{2\sqrt{5}}{5}$

$\cos B = \frac{\sqrt{5}}{5}$        $\tan B = 2$

19.  $\sin \theta = \frac{9}{23}$        $\cos \theta = \frac{8\sqrt{7}}{23}$

$\tan \theta = \frac{9\sqrt{7}}{56}$        $\sec \theta = \frac{23\sqrt{7}}{56}$

$\cot \theta = \frac{8\sqrt{7}}{9}$

21.  $\sqrt{3}$

23. 1

25.  $\approx 0.9455$

27.  $\approx 1.5243$

29.  $\approx 2.4142$

31.  $60^\circ, \frac{\pi}{3}$

33.  $30^\circ, \frac{\pi}{6}$

35.  $\approx 85^\circ$

37.  $\approx 68^\circ$

39.  $\theta \approx 29.7^\circ$

41.  $\approx 84$  feet