4.1-4.3 Review

Name: _____

(1) Simplify $\sqrt{45}$

(2) Simplify $\sqrt{96}$

(3) Simplify $\frac{6}{\sqrt{28}}$

(4) If $\csc\theta = \frac{25}{24}$ and $\tan\theta < 0$, find $\cos\theta$.

(5) If $\tan\theta = \frac{3}{4}$ and $\sec\theta < 0$, find $\csc\theta$.

Give exact values:

(6) $\sec \frac{5}{3}\pi =$

(7) $\csc \frac{3}{4}\pi =$

(8) $\cot 24\pi =$

(9) $\csc\left(\frac{7}{6}\pi + 13\pi\right) =$

(10) $\sec\left(\frac{31}{6}\pi\right) =$

(11) $\cot \frac{2}{3}\pi =$

(12) $\sin\left(\frac{32}{3}\pi\right) =$

(13) $\cos\left(\frac{7}{2}\pi\right) =$

(14) $\tan 191\pi =$

(15) $\sin 450° =$

(1) $3\sqrt{5}$

(2) $4\sqrt{6}$

(3) $\frac{6}{2\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{6\sqrt{7}}{14} = \frac{3\sqrt{7}}{7}$

(4) $a = 7$, $\cos\theta = -\frac{7}{25}$

(5) $h = 5$, $\sin\theta = -\frac{3}{5}$, $\csc\theta = -\frac{5}{3}$

(6) 2

(7) $\sqrt{2}$

(8) $\frac{1}{0}$ = undefined

(9) 2

(10) $-\frac{2}{\sqrt{3}}$

(11) $-\frac{\sqrt{3}}{3}$

(12) $\frac{\sqrt{3}}{2}$

(13) 0

(14) $\frac{0}{-1} = 0$

(15) 1