

HW Answers Unit 6 Lesson 2 p. 320 Odds #5 – 11 , 19 - 25

5.  $\sin \theta = \frac{24}{25}$

$\cos \theta = \frac{7}{25}$

$\tan \theta = \frac{24}{7}$

$\csc \theta = \frac{25}{24}$

$\sec \theta = \frac{25}{7}$

$\cot \theta = \frac{7}{24}$

9.  $\sin \theta = \frac{5\sqrt{29}}{29}$

$\cos \theta = -\frac{2\sqrt{29}}{29}$

$\tan \theta = -\frac{5}{2}$

$\csc \theta = \frac{\sqrt{29}}{5}$

$\sec \theta = -\frac{\sqrt{29}}{2}$

$\cot \theta = -\frac{2}{5}$

19.  $\sin \theta = \frac{3}{5}$

$\cos \theta = -\frac{4}{5}$

$\tan \theta = -\frac{3}{4}$

$\csc \theta = \frac{5}{3}$

$\sec \theta = -\frac{5}{4}$

$\cot \theta = -\frac{4}{3}$

23.  $\sin \theta = \frac{\sqrt{3}}{2}$

$\cos \theta = -\frac{1}{2}$

$\tan \theta = -\sqrt{3}$

$\csc \theta = \frac{2\sqrt{3}}{3}$

$\sec \theta = -2$

$\cot \theta = -\frac{\sqrt{3}}{3}$

7.  $\sin \theta = -\frac{12}{13}$

$\cos \theta = \frac{5}{13}$

$\tan \theta = -\frac{12}{5}$

$\csc \theta = -\frac{13}{12}$

$\sec \theta = \frac{13}{5}$

$\cot \theta = -\frac{5}{12}$

11.  $\sin \theta = \frac{9\sqrt{85}}{85}$

$\cos \theta = -\frac{2\sqrt{85}}{85}$

$\tan \theta = -\frac{9}{2}$

$\csc \theta = \frac{\sqrt{85}}{9}$

$\sec \theta = -\frac{\sqrt{85}}{2}$

$\cot \theta = -\frac{2}{9}$

21.  $\sin \theta = -\frac{15}{17}$

$\cos \theta = \frac{8}{17}$

$\tan \theta = -\frac{15}{8}$

$\csc \theta = -\frac{17}{15}$

$\sec \theta = \frac{17}{8}$

$\cot \theta = -\frac{8}{15}$

25.  $\sin \theta = 0$

$\cos \theta = -1$

$\tan \theta = 0$

$\csc \theta$  is undefined.

$\sec \theta = -1$

$\cot \theta$  is undefined.