UNIT 6 WORKSHEET 16
EVALUATING TRIG FUNCTIONS OF ANY ANGLE

Find the exact value of the six trigonometric functions of an angle θ, in standard position, given the following information.

A) $\cos\theta = \frac{1}{2}, \ \sin\theta < 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

B) $\sin\theta = -\frac{3}{4}, \ \tan\theta > 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

C) $\sin\theta = \frac{1}{4}, \ \cos\theta > 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

D) $\sec\theta = 3, \ \csc\theta < 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

E) $\tan\theta = -\frac{\sqrt{5}}{2}, \ \sin\theta < 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

F) $\cos\theta = \frac{\sqrt{3}}{2}, \ \sin\theta < 0$

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

Continued

G) $\csc\theta = \frac{3}{2}, \quad \cos\theta < 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$

H) $\cot\theta = \sqrt{2}, \quad \cos\theta > 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$

I) $\sec\theta = -\frac{1}{5}, \quad \cot\theta < 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$

J) $\cot\theta = \frac{\sqrt{2}}{3}, \quad \sin\theta < 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$

K) $\csc\theta = \frac{2\sqrt{3}}{3}, \quad \cos\theta > 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$

L) $\sec\theta = -\frac{3\sqrt{5}}{5}, \quad \tan\theta < 0$

$\sin\theta =$ $\quad$ $\csc\theta =$

$\cos\theta =$ $\quad$ $\sec\theta =$

$\tan\theta =$ $\quad$ $\cot\theta =$