Trigonometry Review Assignment

Given the following information, determine the quadrant in which the angle θ resides.

A) $\cos\theta > 0$ and $\sin\theta < 0$

B) $\tan\theta > 0$ and $\cos\theta < 0$

C) $\sin\theta > 0$ and $\tan\theta < 0$

D) $\tan\theta < 0$ and $\cos\theta < 0$

E) $\sec\theta > 0$ and $\csc\theta > 0$

F) $\cot\theta > 0$ and $\sec\theta > 0$

G) $\csc\theta < 0$ and $\cos\theta < 0$

H) $\cot\theta > 0$ and $\sec\theta < 0$

Find one positive and one negative coterminal angle of each of the following. **There is no need to graph the angles.**

I) $30°$

J) $-\frac{2\pi}{3}$

K) $\frac{5\pi}{2}$

L) $\frac{\pi}{3}$

For each of the following, find the reference angle θ'.

M) $\theta = -\frac{2\pi}{3}$

N) $\theta = -230°$

O) $\theta = 300°$

P) $\theta = 2.3$

Q) $\theta = 57°$

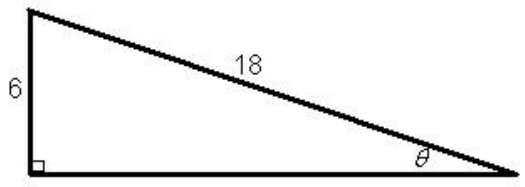
R) $\theta = 113°$

S) $\theta = \frac{7\pi}{6}$

T) $\theta = \frac{5\pi}{3}$

Find the exact values of the six trigonometric functions of θ.

U)

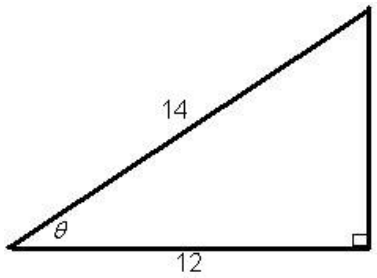


$\sin\theta =$ $\csc\theta =$

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

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

V)



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

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

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

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

W) Given $\sin\theta = \frac{3}{5}$ the angle θ lies in quadrant II.

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

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

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

X) Given $\tan\theta = \sqrt{3}$ the angle θ lies in quadrant III.

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

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

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

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

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

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

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

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

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

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

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