

Two Clues Kwiz!



Due Tuesday 2/21/2017

On a separate piece of paper, complete a-e for each of the following. Show all work. Avoid intermediate rounding error. Box your final answers, with units when appropriate.

1. If $\sec q = -5$ and $\csc \theta < 0$
2. If $\cot q = -\frac{3}{4}$ and $\sec q < 0$
3. If $\csc q = -3$ and $\sec q < 0$
4. If $\cos q = \frac{2}{7}$ and $\csc \theta < 0$

- (a) Draw the reference triangle for θ in the correct quadrant. Show your arc and angle θ .
- (b) Find the **simplified, exact, rationalized** value of $\sin q$.
- (c) Find the **simplified, exact, rationalized** value of $\tan q$.
- (d) Find the reference angle, θ_{ref} , for θ in degrees. **Show the equation you are solving** and report 3 decimals.
- (e) To three decimals, find the value of θ such that $\theta \in [0^\circ, 360^\circ)$. Show the computations that lead to your answer.