

# Math 1613 - Trigonometry

Quiz #2 - 2011.08.23

Solutions

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1. Explain what a cofunction relationship is with regards to the trigonometric functions.

Cofunction relationships give us a way to relate one trigonometric function to another through angle relationships. As an example, we have that  $\sin(\theta) = \cos(90^\circ - \theta)$ .

2. In which quadrant(s) are  $\sin(\theta)$  and  $\tan(\theta)$  both negative?

We know that  $\sin(\theta) < 0$  in quadrants three and four, while  $\tan(\theta) < 0$  in quadrants two and four. Thus, for both to be negative, we must be in quadrant four.