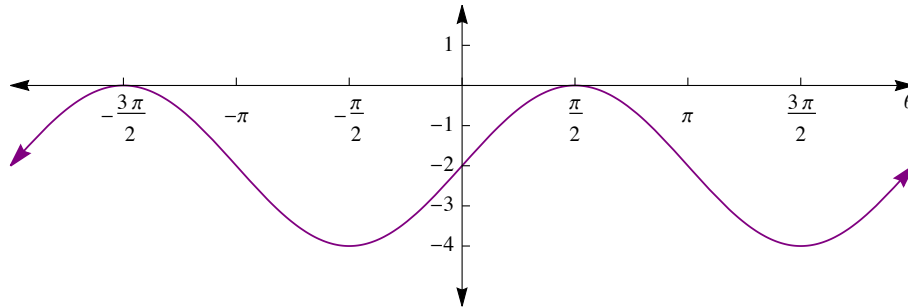


Trigonometry Assignment #9

Covers up to Trigonometry 40: Product-to-Sum Formulas

1. Sketch the graph of the reciprocal of the function graphed below.



2. Find the exact value of $\sin(-105^\circ)$.
3. Simplify $\cos\left(x - \frac{3\pi}{2}\right)$
4. Given $\sec \theta = 5/2$, $0 \leq \theta \leq \pi/2$, find $\tan \theta$, $\csc \theta$
5. Given $\sin \theta = a/3$, $0 \leq \theta \leq \pi/2$, find $\tan \theta$ in terms of a
6. Express $\cos 3\theta$ in terms of $\cos \theta$
7. Given $\cos \theta = 2/3$, $3\pi/2 < \theta < 2\pi$, find a) $\sin 2\theta$ and b) $\cos 2\theta$