## Problem of the Week

Finishing date: 09/30/2016
Roommates John and Paul leaves a bar at midnight heading to their house. John walks at $4 \mathrm{ft} / \mathrm{sec}$ (constant speed) on the straight path from the bar to the house, which is $2 \pi$ miles. Paul is more drunk and runs at $6 \mathrm{ft} / \mathrm{sec}$ (constant speed) but along the graph of the sine function (with amplitude of 1 mile and period being $2 \pi$ miles). Who arrives home earlier?

## Previous problem winners:

## Randall Moreland (first solution)

and Mihaja Rakotomalala (graduate student)


