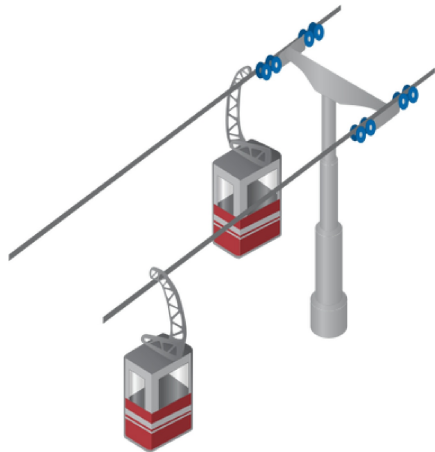Problem number 258
Posted Monday April 6th 2015
Submit by noon, Monday April 13th 2015

A sightseeing sky ride through a wilderness park is built as a
double loop. Gondolas running clockwise leave on the hour, 15
minutes after the hour, 30 minutes after the hour and 45
minutes after the hour and take 2 hours to complete the loop.
Gondolas running counterclockwise also leave on the hour, 15
minutes after the hour, 30 minutes after the hours and 45
minutes after the hour, but being more leisurely, take 3 hours to
complete a loop.

Two passengers leave at the same time, one on the clockwise line and one on the
counterclockwise line. Including the gondolas seen at the station but not the ones they are
travelling on, how many gondolas did each passenger see on her trip?

If a gondola is seen more than once it is counted each time it is seen. Because of the 15 minute
intervals between departure times, neither passenger can see other gondolas on its own line.