



NAME _____

DATE _____

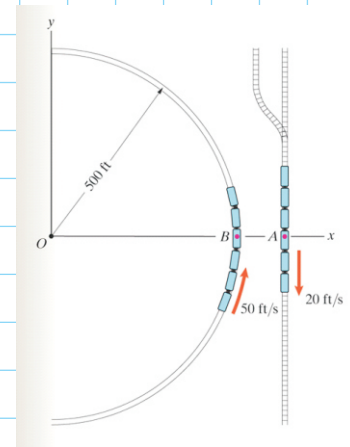
WEEK: _____ PROBLEM: _____

GIVEN:

The train on the circular track is traveling at a constant speed of 50 ft/s. The train on the straight track is traveling at 20 ft/s and is increasing its speed at 2 ft/s^2 . In terms of the earth-fixed coordinate system shown,

what is the velocity of passenger A relative to passenger B?

what is the acceleration of passenger A relative to passenger B?

**REQUIRED:****SOLUTION:**