Name _____   Date _____

Regents Physics   Measure & Math WS 7R

Period _____   Mr. Moy

Kinematics

1. Mr. Moy is out driving his old Pontiac Grand Prix at 9.8 m/s. He accelerated at a rate of 1.6 m/s² for 20. seconds. How far down the road is he?

2. Carrie N Books is running around the track. She makes a sprint for the finish line, which is 1100. meters west of her current position. If her rate of acceleration is 1.60 m/s² and she continues for 31.0 seconds, what was her initial velocity?

3. Mark Meiwurdz is buzzing around town on his skateboard at 6.1 m/s when he runs into some dirt that slows him down at a rate of - 0.79 m/s². How long will it take him to come to a complete stop?

4. If Dusty Rhodes' Corvette can go from zero to 24 m/s in 2.15 seconds, then what is its rate of acceleration?

5. An airplane accelerates at 7.84 m/s² for 150. seconds to reach a velocity of 1900. m/s north. What was its initial velocity?