PHYSICS 12

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Kinematics II

1)	A car traveled up a hill at constant speed of 10.0 m/s and then returned down the hill at 20.0 m/s . If the time to turn around is ignored, what was the average speed for the trip?
2)	A late passenger, sprinting at 8 m/s , is 30 m away from the rear end of a train when it starts out of the station with uniform acceleration of 1 m/s^2 . Can the passenger catch the train if the platform is long enough?
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Assign 3)	A ball is thrown vertically up at 3.0 m/s off the edge of a 12 m cliff. How long will it take for the ball to hit the ground at the bottom of the cliff?
4)	A stone is thrown vertically upward with a speed of 10.0 m/s from the edge of a cliff 65 m high. a) How much later does it reach the bottom of the cliff? b) What is its speed just before hitting? c) What total distance did it travel?
5)	A 90 m long train begins accelerating from rest. The front of the train passes a railway worker, who is standing 200 m from where the front of the train started, at a speed of 25 m/s. What will be the speed of the last car as it passes the worker?

