COPYING IS UNACCEPTABLE	
HW 2.1 Uniform Acceleration	

Per	Name	

## SHOW ALL WORK! THIS MEANS KUNFU!!!!

1.	With a time of 6.92 s, Irina Privalova of Russia holds the women's record for running 60 m. Suppose distance with a constant acceleration, so that she crossed the finish line with a speed of 17.34 m/s. A started at rest, what was Privalova's average acceleration.	
2.	A handball is hit toward a wall with a velocity of 13.7 m/s to the <b>right</b> . It bounces off the wall to the <b>lef</b> ity of 11.5 m/s. The ball was in contact with the wall for 0.021 seconds. What is the handball's averation?	
3.	A type of firework consists of a cardboard tank mounted on plastic wheels and driven forward by a sm Once the rocket ignites, the tank rolls from rest to a maximum velocity of 0.85 m/s forward, at which p et burns out. If the total time that the rocket remains ignited is 3.7 s, what is the average acceleration	oint the rock-
4.	Currently the fastest production car ever made is the Bugatti Veyron EB 16.4 (Super Sport). It can at 0 - 60.0 mi/hr at 11.29 m/s². How long in seconds does it take the Bugatti to go from 0 - 60.0 mi/hr?	celerate from
5.	The brakes of a car moving at 14 m/s are suddenly applied and the car comes to a stop in 4 sec. (a) \acceleration? (b) How long would the car take to come to a stop starting from 20 m/s with the same (c) How long would the car take to slow down from 20 m/s to 10 m/s with the same acceleration?	

6.		an average acceleration of 4.7 E-3 m/s <sup>2</sup> . What is the velocity of me it started from rest.	the treadmill after 5
7.	A car traveling a car?	at +7.0 m/s accelerates at 0.80 m/s <sup>2</sup> for 2.0 seconds. What is the	e final velocity of the
8.	A train comes to initial velocity of	o a stop in 3 minutes. If the train had a uniform acceleration of – the train?	3.5 m/s <sup>2</sup> what was
9.	A stunt gazelle take the stunt g	Don a bike accelerates from rest with an average acceleration of 3 azelle to reach a velocity of 30 m/s?	3.5 m/s <sup>2</sup> how long did it
10.	A car accelerate this take?	es from rest to 100 mi/hr with an acceleration of 8.55 m/s <sup>2.</sup> . How	long in seconds did
11.	A stunt gazelle tion in m/s <sup>2</sup> ? (b a complete stop	in a car slows from 100 km/hr to 80 km/hr in 1.2 seconds. (a) W  If the car could maintain this acceleration how much longer wo	hat was the accelera- ould it take to come to