Acceleration HW

- 1) You have not had lunch yet and spot a hot dog vendor down the block. You are initially walking at 2.0m/s and accelerate up to a velocity of 3.2 m/s in 8.0 sec's. What is your rate of acceleration?
- 2) The acceleration due to gravity on Krypton is 19.2 m/s². If Kal-El begins at rest and is knocked of a hill and falls for 4.3 seconds what is his final velocity?
- 3) Mr. G's 2008 Lexus starts at a velocity of 12 m/s accelerates at a rate of 4.3 m/s² up to a velocity of 20 m/s. How long did this take?
- 4) An asteroid traveling at 200 m/s enters Jupiter's atmosphere and is accelerated up to a velocity of 666 m/s in 7.0 sec. What is the rate of acceleration on Jupiter?
- 5) A fire bolt is sent out of an imp with an initially velocity of 23 m/s as it travels through the air it slows down at a rate of 2.8 m/s² how long does it take for the bolt to stop?