Name

Block _____Date ____

- 1) A projectile is shot upward from the ground with an initial velocity of 320 feet per second.
 - a) What is the velocity after 5 seconds?
 - b) What is its acceleration after 3 seconds?

5ld: -16t2 + 336t +0 ult) = -32+ +320 G(t): -32

- 2) A ball is thrown vertically upward from the ground with an initial velocity of 160 ft/sec.
 - a) When will the ball hit the ground? What is the velocity when it hits the ground?
 - b) When will the ball reach its maximum height?

- 3) A projectile is launched upward from a height of 129 ft with a velocity of 87 ft/sec.
 - a) When will the projectile hit the ground? What is its impact velocity?
 - b) When will the projectile reach its maximum height? What is the maximum height?
 - c) What is the total distance traveled by the particle?

- 4) If a baseball is thrown vertically upward at a rate of 64ft/sec...
 - a) When does the baseball land? What is its velocity when it hits the ground?
 - c) What is the velocity of the baseball after two seconds? What is the acceleration?