Free Fall Activity

A ball is thrown vertically up into the air with an initial velocity of 20.0 m/s upward. Find:

- a) The maximum height of the ball
- b) Velocity of the ball at 1.4 seconds
- c) Position of the ball at 2.7 seconds
- d) Total time the ball is in the air
- e) Velocity at maximum height
- f) Acceleration at maximum height
- g) Time that the ball has a speed* of 8.0 m/s
- h) Displacement of the ball at 2.5 s
- i) Distance* traveled in 2.5 s
- j) The acceleration of the ball at 1 s