**#17**

**Physics Homework** **Name _____**

**Date _____ Period _____**

# Show PAWS

1) A ball is thrown straight up.

a. What happens to the velocity while the ball moves up?

b. What happens to the acceleration while the ball moves up?

c. When does the ball reach minimum velocity?

d. Does the direction of velocity change during the motion?

e. Does the direction of acceleration change during the motion?

2) A rock is dropped off of a 34m tower. How fast will the rock be traveling when it hits the ground?

3) A ball is thrown straight up with a velocity of 8.9m/s. How high will the ball fly?

4) A book is dropped off of a tall building. If the ball takes 2.4s to reach the ground, how high is the building?

5) How fast will the book in #4 be traveling just before it hits the ground?