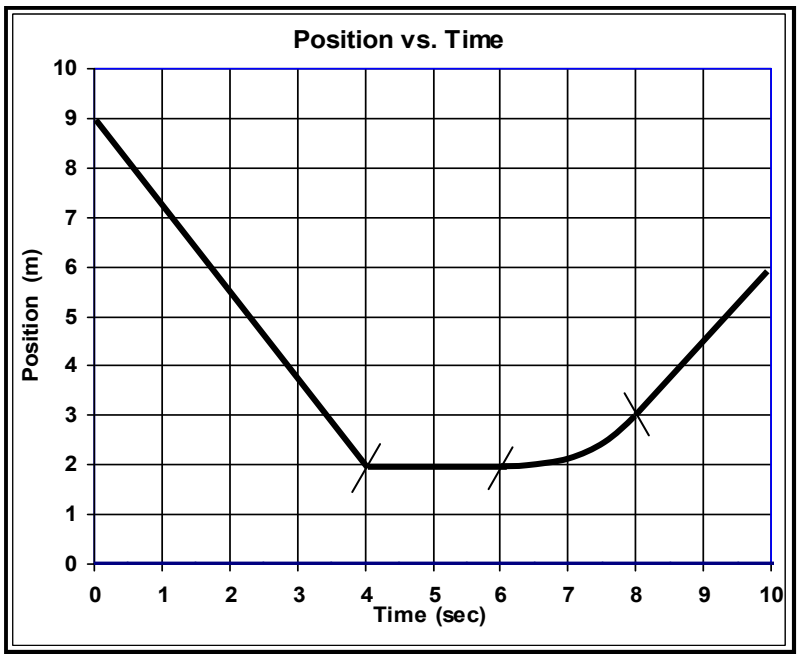
2008 PreAP Linear Motion 6

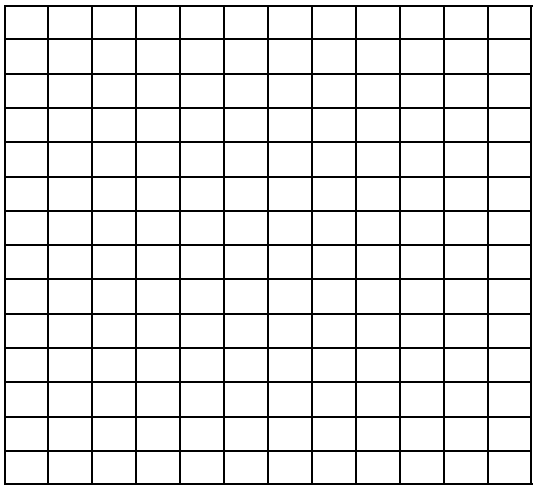
A-Day: Due Thurs., Sept 11 (Assigned: 9/9)
B-Day: Due Fri., Sept 12 (Assigned: 9/10)

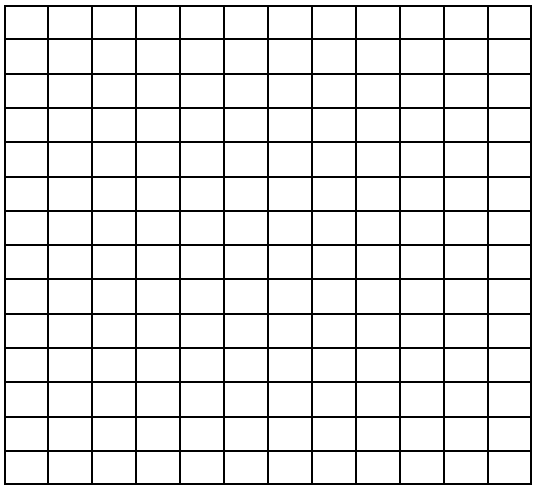


1. A. What is the displacement of the object for the 10 seconds on the graph?

   B. Calculate its average velocity.

2. Transfer the position vs time graph to a velocity and acceleration graph.





3. A ball is thrown into the air at 12 m/s. How far into the air will the ball rise?
   A. To find "how far into the air" means from where it is thrown to the very top, so V_f = _____.
   B. What is the acceleration of the ball?
   C. What variable are you looking for?
   D. Solve.

4. An object is thrown into the air from the ground going 10 m/s. How long does it take for it to get back to the ground?
   A. Since it comes back to the ground, what is its displacement?
   B. What is its final velocity?
   C. Solve.

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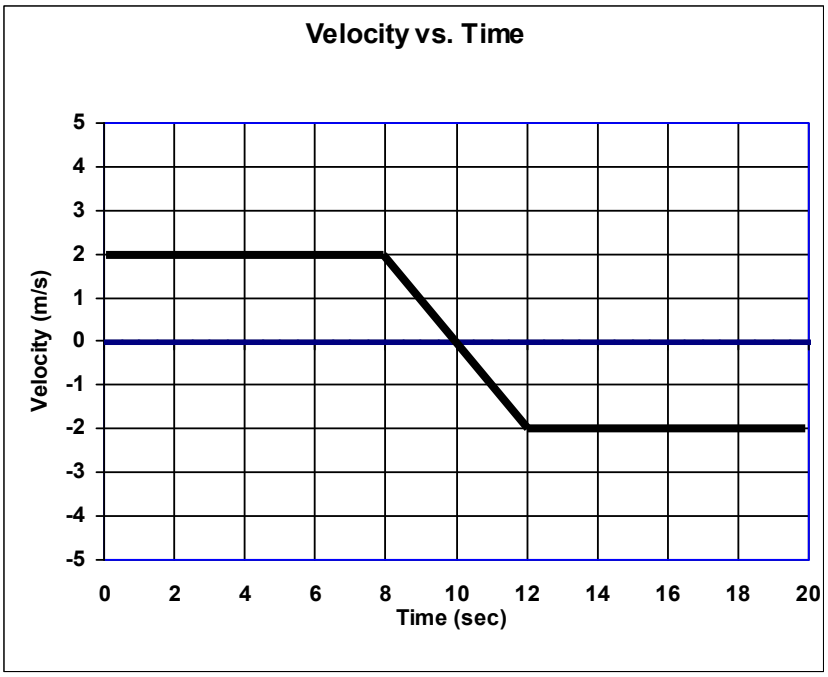
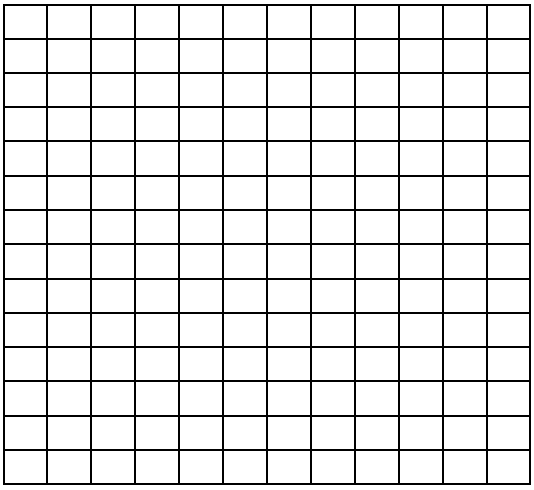
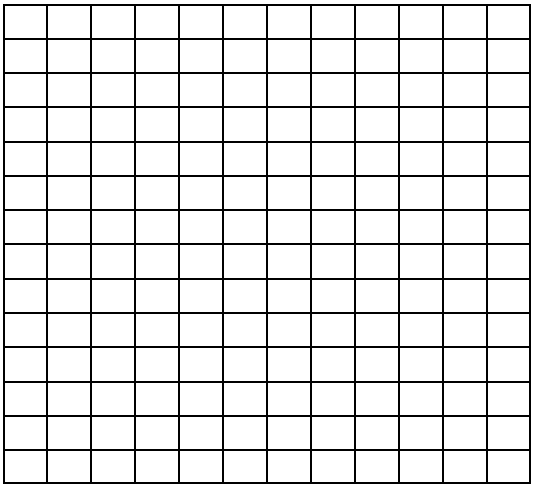
5. An object is dropped from 25 m up. How fast is it going just before it hits the ground?

6. Translate the following graph to position and acceleration.







7. At the right, draw and label the x^2, 1/x, and square root functions.