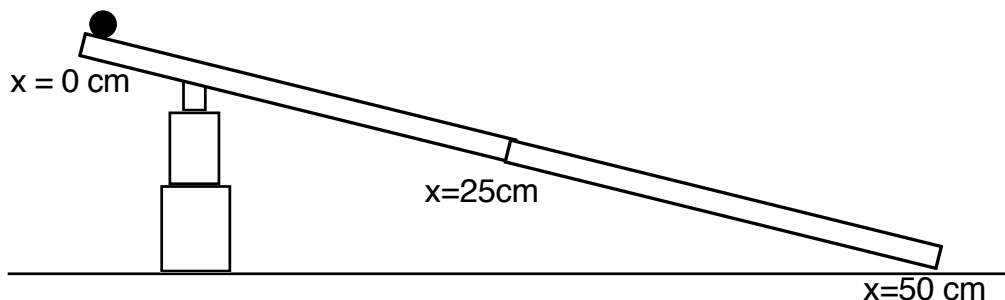
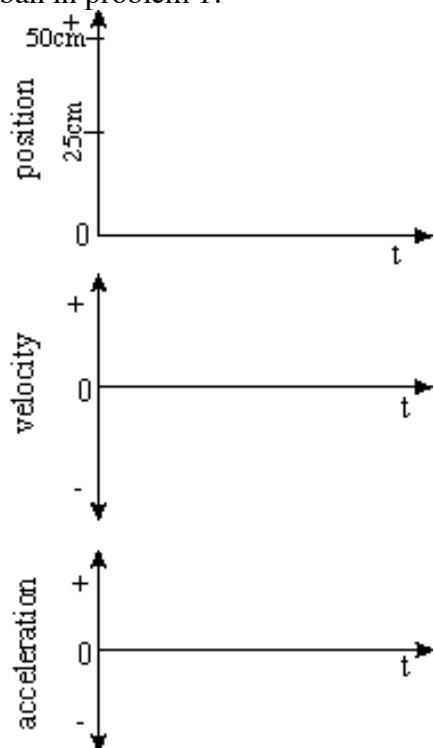


Uniformly Accelerated Particle Model Worksheet 2: Accelerated Motion Representations

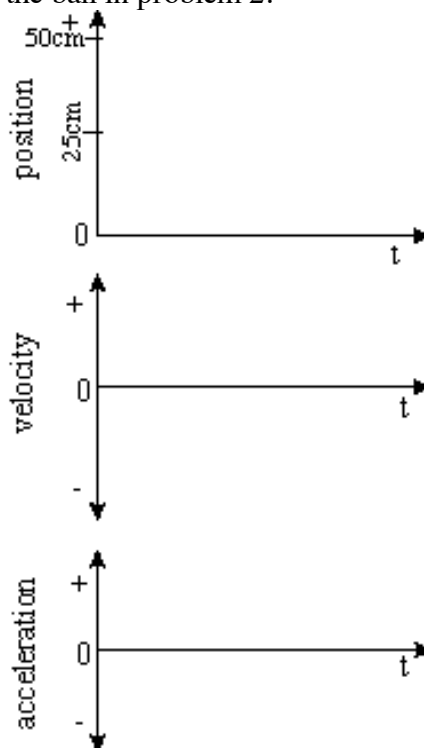
1. Draw a motion map along the ramp for the motion of the ball as it rolls down the ramp from rest.
 $v_0 = 0 \text{ cm/s}$



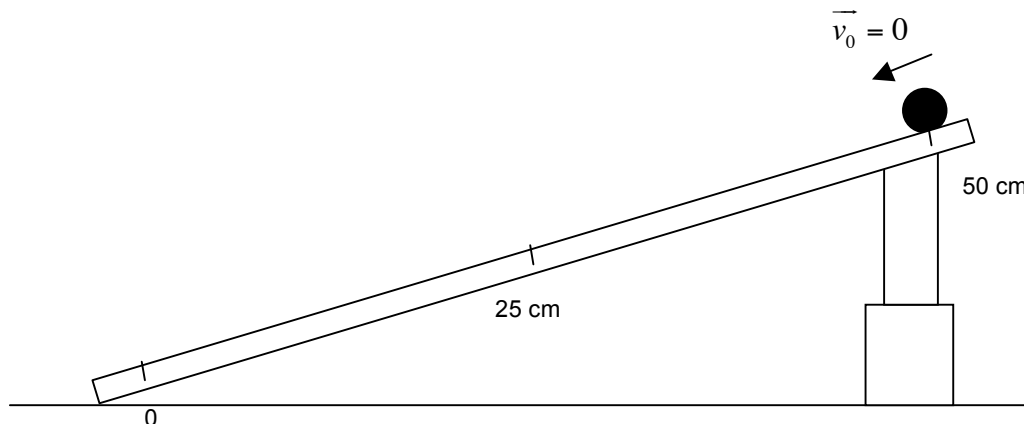
Draw graphs corresponding to the motion of the ball in problem 1.



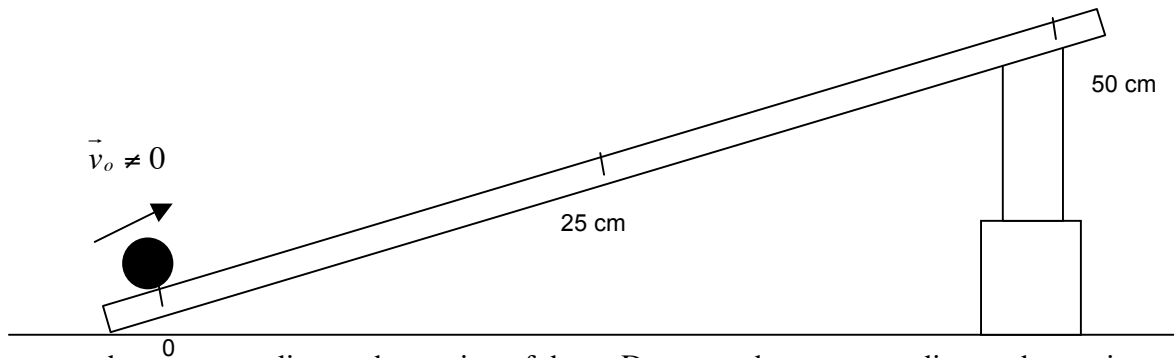
Draw graphs corresponding to the motion of the ball in problem 2.



2. Draw a motion map along the ramp for the motion of the ball as it rolls down the ramp from rest.

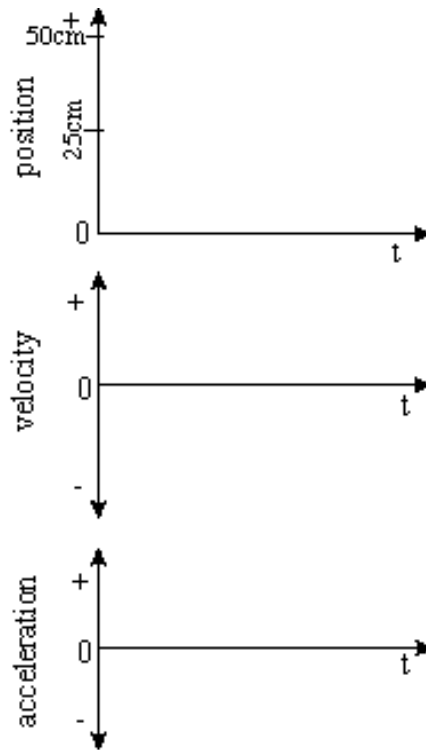
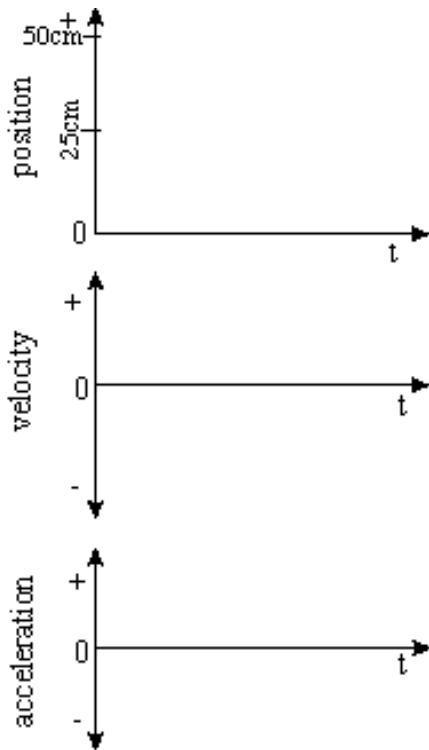


3. Draw a motion map along the ramp for the motion of the ball as it rolls up the ramp, starting from a non-zero velocity.

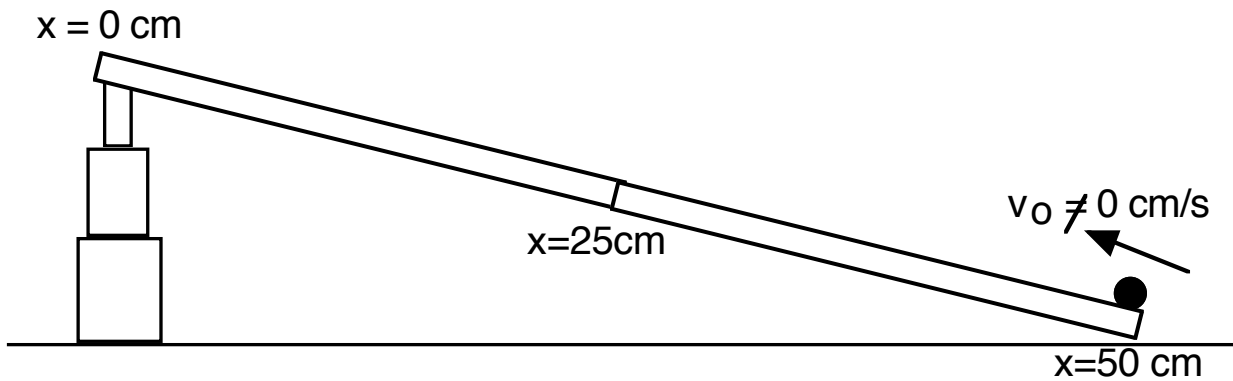


Draw graphs corresponding to the motion of the ball in problem 3.

Draw graphs corresponding to the motion of the ball in problem 4.

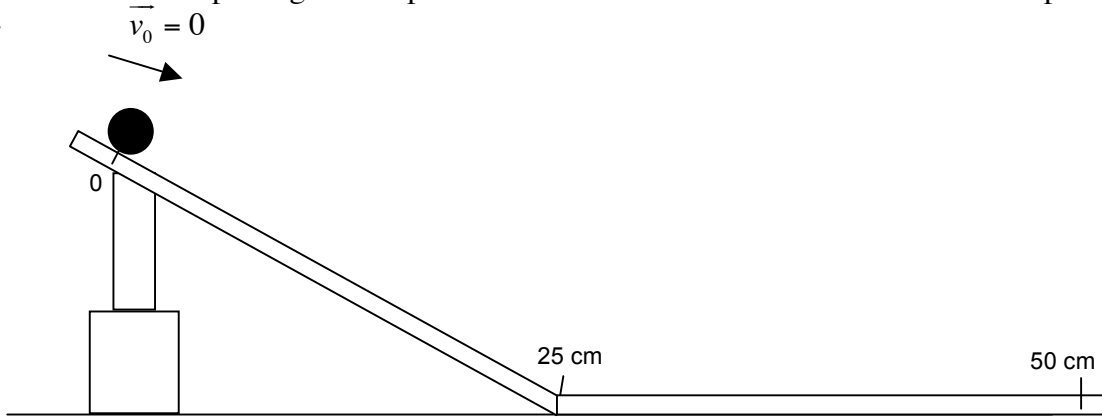


4. Draw a motion map along the ramp for the motion of the ball as it rolls up the ramp, starting from a non-zero velocity.



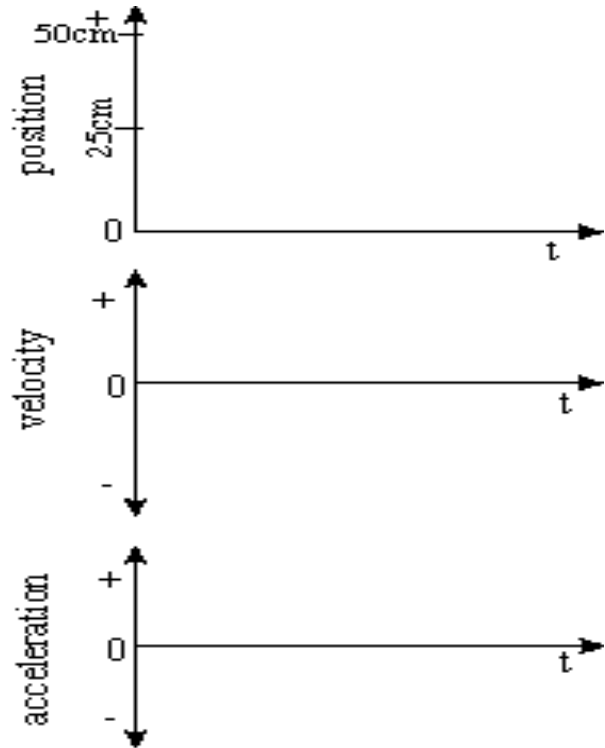
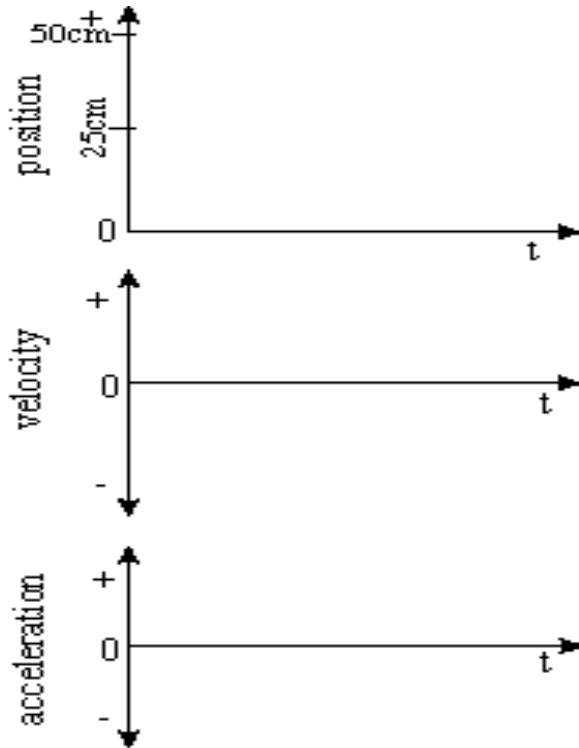
When considering problems 5 and 6, assume that the ball does not experience any change in velocity while it is on a horizontal portion of the track.

5. Draw a motion map along the ramp for the motion of the ball as it rolls down the ramps from rest.



Draw graphs corresponding to the motion of the ball in problem 5.

Draw graphs corresponding to the motion of the ball in problem 6.



6. Draw a motion map along the ramp for the motion of the ball as it rolls down the ramp, across the level section, and up the ramp on the left.

