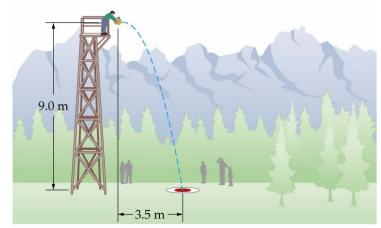
Physics 151 Class Exercise: 2-D Kinematics

- 1. Playing shortstop, you pick up a ground ball and throw it to second base. The ball is thrown horizontally, with a speed of 22. m/s, directory toward point A. When the ball reaches the second baseman 0.45 s later, it is caught at point B.
- (a) How far were you from the second baseman?
- (b) What is the distance of vertical drop?

	A
	В

x-motion			y-motion		
Known:	Solve:	Known:	Solve:	NI:	
		l			
		A	Answer:		
		Ā	Answer:		

2. In Denver, children bring their old jack-o-lanterns to the top of a tower and compete for accuracy in hitting a target on the ground. Suppose that the tower is 9.0 m high and that the bulls-eye is a horizontal distance of 3.5 m from the launch point. If the pumpkin is thrown horizontally, what is the launch speed needed to hit the bulls-eye?



x-motion			y-motion		
Known:	Solve:	Known:	Solve:	NI:	

Answer:	