Physics 122: 1D Motion Quiz

Work alone but you may use any of your own notes. There are two pages.

L.	A car tr	aveling at 25 m/s accelerates at 3.5 m/s for 22 seconds.
	a.	What distance was traveled in that time?
	h	What was the final speed of the car?
	υ.	what was the inial speed of the car:
2.	The up	ward velocity of a football is 21 m/s.
	a.	Assuming no air resistance how long is the ball in the air?
	b.	How high does the ball go? (hint: the ball spends half of its air-time traveling upwards)

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3.	The muzzle speed of a bullet is 425 m/s. Assuming that the bullet is fired directly upwards and no air resistance:		
		At what time(s) is the bullet 1300 m above the ground?	
	a.	At what time(s) is the bullet 1500 in above the ground:	
	b.	What is the instantaneous speed when the bullet is 2575 m above the ground?	