More Vector Addition Problems

1.	A car travels at 60 km/h 090 $^\circ$ for 0.40 h and then travels at 90 km/h 180 0.50 h. Calculate	avels at 90 km/h 180° for an additional	
	(a) the average speed for the whole trip.	(77 km/h)	
	(b) the average velocity for the whole trip.	(57 km/h 152°)	
2. A person runs 120.0 m 090° and then goes an additional 80.0 m 180° takes 40.0 s.		0°. The entire trip	
	(a) Find the resultant displacement.	(144 m 124°)	
	(b) Calculate the average velocity for the entire trip.	(3.60 m/s 124°)	
	(c) Calculate the average speed for the entire trip.	(5.00 m/s)	
3.	3. A trapper walks 2.00 km 180° then walks 5.00 km 270° in a total time of 2.00 h.		
	(a) What is her final displacement?	(5.39 km 248°)	
	(b) What is her average velocity?	(2.70 km/h 248°)	
	(c) What is her average speed	(3.50 km/h)	
4.	A car travels at 50 km/h North for 0.80 h and then turns and travels at 90 km/h West fo		
	(a) the average velocity for the whole trip.	(46 km/h 312°)	
	(b) the average speed for the whole trip.	(65 km/h)	
5.	 A cyclist travels 20 km South in 1.5 hours and then turns and travels 30 km West in 2 h. Find 		
	(a) the average velocity for the whole trip.	(9.0 km/h 236°)	
	(b) the average speed for the whole trip.	(13 km/h)	