2	A car of mass 1400 kg pulls a trailer of mass 400 kg along a straight horizontal road. The enging of the car produces a driving force of 6000 N. A resistance of 800 N acts on the car. A resistance 300 N acts on the trailer. The tow-bar between the car and the trailer is light and horizontal.	
	(a) Draw a force diagram showing all the horizontal forces on the car and the trailer.	[2]
	(b) Calculate the acceleration of the car and trailer.	[3]