9	stroi	A crane lifts a car vertically. The car is inside a crate which is raised by the crane by means of a strong cable. The cable can withstand a maximum tension of 9500N without breaking. The crate has a mass of 55kg and the car has a mass of 830kg.		
	(a)	Find the maximum acceleration with which the crate and car can be raised.	[2]	
	(b)	Show on a clearly labelled diagram the forces acting on the crate while it is in motion.	[1]	
	(c)	Determine the magnitude of the reaction force between the crate and the car when they ascending with maximum acceleration.	are [3]	