5	In this question, the unit vectors $\mathbf{i}$ and $\mathbf{j}$ are horizontal and vertically upwards respectively.	
	A particle has mass 2.5 kg.	
	(a) Write the weight of the particle as a vector.	[1]
	The particle moves under the action of its weight and two external forces $(3\mathbf{i}-2\mathbf{j})$ N $(-\mathbf{i}+18\mathbf{j})$ N.	and
	(b) Find the acceleration of the particle, giving your answer in vector form.	[2]