4	
	A particle of mass 1.5 kg is in equilibrium under the action of its weight and forces $\mathbf{F}_1 = \begin{pmatrix} 4 \\ -2 \end{pmatrix} \mathbf{N}$ and \mathbf{F}_2 .
	(a) Find the force F

The force
$$\mathbf{F}_2$$
 is changed to $\begin{pmatrix} 2 \\ 20 \end{pmatrix} \mathbf{N}$.

(b) Find the acceleration of the particle.