1	(a)	Show that the SI base units of power are $kgm^2s^{-3}$ .	
	(b)	The rate of flow of thermal energy $\frac{Q}{t}$ in a material is given by	[3]
		$\frac{Q}{t} = \frac{CAT}{x}$	
		<ul> <li>where A is the cross-sectional area of the material,</li> <li>T is the temperature difference across the thickness of the material,</li> <li>x is the thickness of the material,</li> <li>C is a constant.</li> </ul>	
		Determine the SI base units of <i>C</i> .	
		base units[	[4]