SECTION B

Answer ALL questions in the spaces provided.

11	Sirius is the brightest star in the night sky.	The intensity of Sirius is measured to be
	$1.09 \times 10^{-7} \mathrm{W}\mathrm{m}^{-2}$.	

Calculate the distance of Sirius from the Earth.

luminosity	of	Sirius	=	$8.94 \times$	10^{27}	W

Distance of Sirius from the Earth =