$\overrightarrow{OA} = \begin{pmatrix} -8 \\ -4 \\ 2 \end{pmatrix}, \overrightarrow{OB} = \begin{pmatrix} 10 \\ 2 \\ 11 \end{pmatrix} \text{and} \overrightarrow{OX} = \begin{pmatrix} -2 \\ -2 \\ 5 \end{pmatrix}.$	
(i) Find \overrightarrow{AX} and show that AXB is a straight line.	[3]
	•••••

10 Relative to an origin O, the position vectors of the points A, B and X are given by

The position vector of a point C is given by $\overrightarrow{OC} = \begin{pmatrix} 1 \\ -8 \\ 3 \end{pmatrix}$.

•••••	•••••••••••	•••••	•••••	••••••	•••••••
			•••••		
••••••	••••••			•••••	
	•••••	•••••			
Find the area of	triangle ARC				
Find the area of	triangle ABC.				
Find the area of	triangle ABC.				
Find the area of	triangle ABC.				
Find the area of	triangle ABC.				
Find the area of	triangle ABC.				