At one instant, the electric and magnetic fields at one point of an electromagnetic wave are :

$\vec{E} = (220\ \hat{\imath} + 300\ \hat{\jmath} - 50\ \hat{k})$ V/m and

$\vec{B} = B_o(7.9\ \hat{\imath} - 7.9\ \hat{\jmath} + a\hat{k})\ \mu T$

1. What is the value of a ?
2. What is the value of B_o ?
3. What is the Poynting vector at this time and position? Find the x-component, the y- component, and the z-component.

(All answers to 2 significant figures)

I have attached a similar problem and solution with different numbers to review.