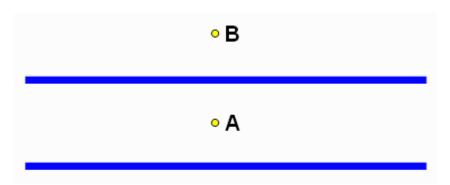
CheckPoint

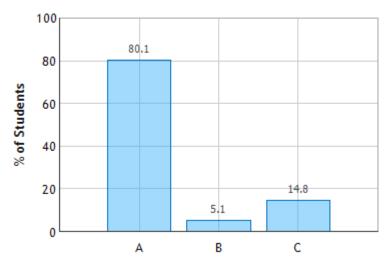
Two infinite lines of charge are shown below.



Both lines have identical charge densities $+\lambda$ C/m. Point A is equidistant from both lines and Point B is located a above the top line as shown. How does E_A , the magnitude of the electric field at point B, compare to E_B , the magnitude of the electric field at point B?



Two Lines of Charge: Question 1 (N = 859)



A) (E_A<E_B) "As the electric field by both lines have equal magnitude on A but opposite directions they get cancelled out hence electric field at A=0 whereas that is not the case at B and electric field at B>0"

C) $(E_A > E_B)$ "E_A will be grater becuase it has two lines of charge acting on it from equl distance were E_B would be less because it is fruther from the lower line of charge."