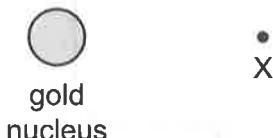


- 23 The electric force on an  $\alpha$ -particle at point X in the electric field of a gold nucleus is 35 N.



What are the magnitude and direction of the electric field strength at X due to the gold nucleus?

	magnitude / $\text{NC}^{-1}$	direction
A	$5.5 \times 10^{19}$	to the left
B	$5.5 \times 10^{19}$	to the right
C	$1.1 \times 10^{20}$	to the left
D	$1.1 \times 10^{20}$	to the right

