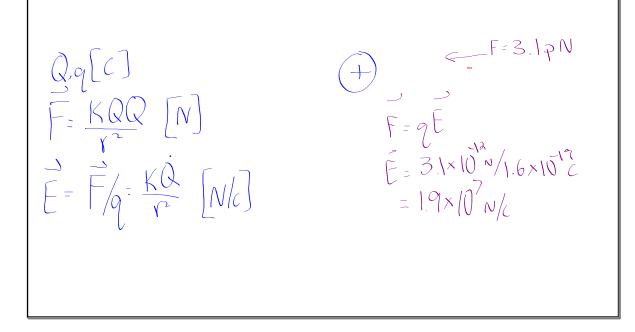
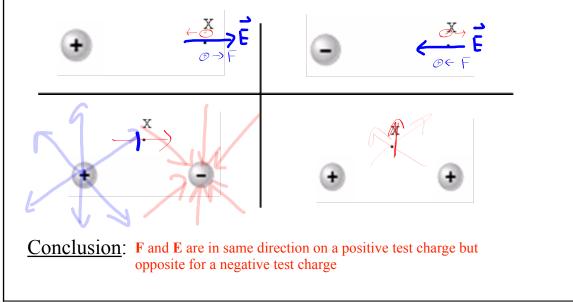
Electric Field Strength

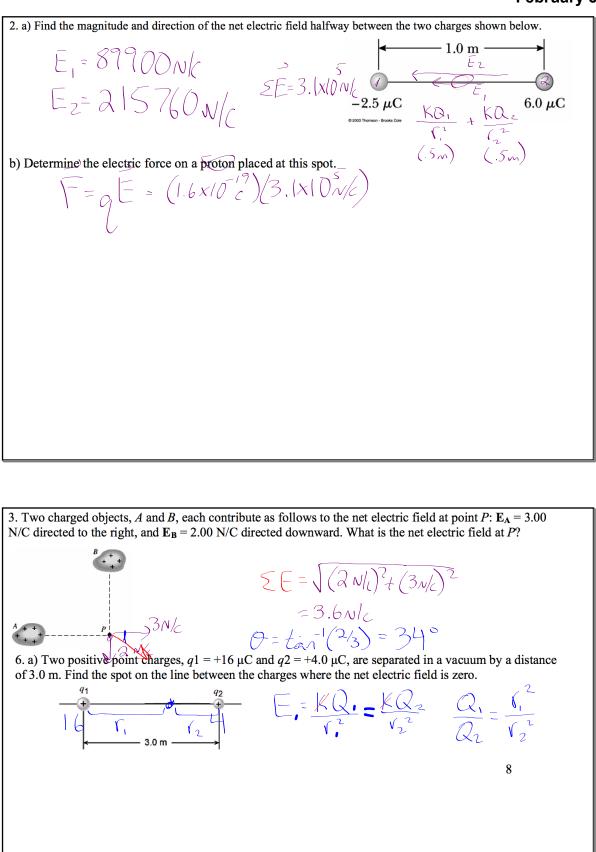
2. What is the magnitude and direction of the electric field at a point where an electron experiences a force of 3.1 pN?



Comparing Forces and Fields

1. In each case below, compare the direction of the electric field produced by the charged object at point X with the direction of the electrostatic forces exerted on a proton and on an electron placed at point X.





	Electric Potential Energy and Electric Potential					
Gravitational	Potential Energy					
A	.		+++++++++++++++++++++++++++++++++++++++	+ +		
			A ^(+q)			
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			↓ (k		
100	- 			qĒd		
В	ر ب		B (+q	qtd		
Ļ	ing sn			L		
,	U		*			
Electric potential	energy: energy	due to a char	ge's position in ar	n electric field		
	PC	$\left(- \right)$				
Symbol: Units:	$1 L_e$	$\begin{bmatrix} J \end{bmatrix}$				
1. In the diagram	above, at which sp	pot, A or B, will th	ne test charge have mor	re electric potential ene	rgy?	

