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The force resulting from two nearby charges is equal to  $k$  times charge one times charge two divided by the square of the distance between the charges. 
$$E = F q. \left\{ \frac{F}{q} \right\}$$
 The electric field created by a charge is equal to the force generated divided by the charge. 
$$E = k \frac{q}{r^2}.$$

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## Physics 132 - College of Arts and Sciences

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$d_n = d \sin \theta$   $1 \times (1.7 \times 10^{11}) = (1.4 \times 10^{10}) \sin \theta$   $\theta = 7^\circ$ . eAnswer to (a)  $\times 2$  , to (b)  $\times 2$  , to (c)  $\div 2$  , to (d),  $\sin 2, 5^\circ$ . 12 Without the change in motion of a third particle, it would not be

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possible for both mass-energy and momentum to be conserved. 13 a  
Minimum energy, E. min.

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electric field (  $E$  ) and electric potential (  $V$  )? 2. What is the electric field inside a hollow conducting sphere with charge  $q$  on its surface? What is the electric potential inside? 3.

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