and if the point-charge be then brought to $S$, $QR - PQ$ will represent the (positive) density at the point $Q$. This density will be negative from $A$ to $F$, at which latter point the total density is zero. If the whole figure be rotated about $OS$, $F$ will trace out the line of no force. For the data given, the angle $FOS$ is about $56\frac{1}{2}°$, and if the tangent from $S$ touch the circle at $T$, the angle $SOT$ will be about $53\frac{1}{2}°$.

Note P, Art. 486. **Discontinuity.** The result in Ex. 8 is interesting as it exhibits a discontinuity. The difficulty thus introduced would disappear if we supposed the value of $K$ to be continuous but to change rapidly from $K$ to $K'$. See some brief remarks on this subject in chap. XIII. of the second volume of the Author's treatise on *Rigid Dynamics* (Art. 620 of the fifth edition).