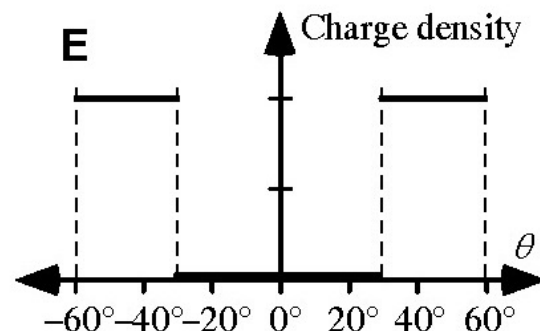
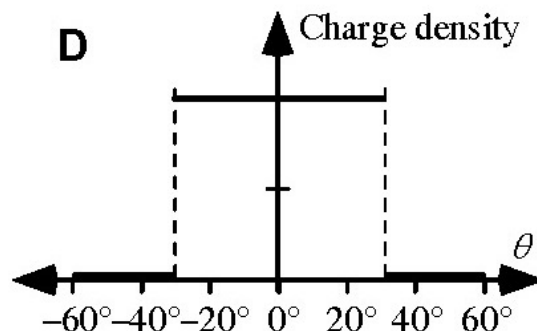
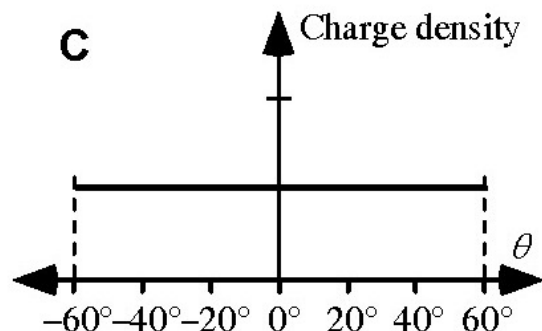
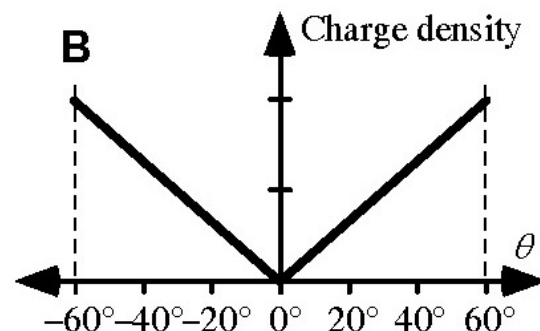
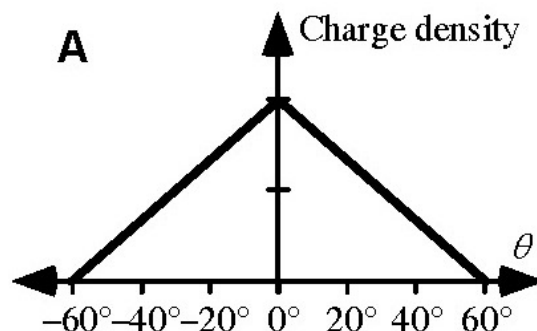
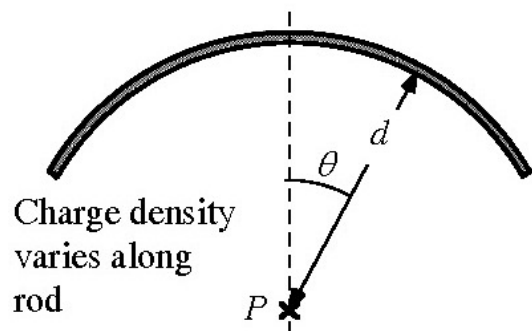


### ET5-RT14: CHARGED CURVED ROD—ELECTRIC FIELD

Point  $P$  is located at the center of curvature of a curved, charged, insulating rod as shown at left below. For each of the five cases A-E, the charge density on the rod varies according to the graphs shown below but the total charge is the same.



Rank the magnitude of the electric field at  $P$  due to the charge in the curved rod.