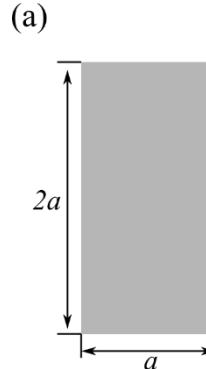


Matlab Miniproject 1.

Part (a). Use method of moments to determine charge distribution on a very thin charged rectangular plate with $a = 1 \text{ m}$, at potential $V_0 = 1 \text{ V}$. Subdivide the plate into $n \times m$ square patches such that $n = 10$ and $m = 20$. Calculate total charge on the plate and plot the charge distribution.



Part (b). Use method of moments to determine charge distribution on a very thin charged plate with shape shown in figure on the right, with characteristic dimension $a = 1 \text{ m}$, at potential $V_0 = 1 \text{ V}$. Subdivide the plate into square patches of same patch size as in Part (a). Calculate total charge on the plate and plot the charge distribution.

