Rigid Body F=ma Intro (Gen Plane): Example 1
(This is a general intro problem to the RB motion equations) A $40 \mathrm{lb}, 2 \mathrm{ft}$ square plate rests on a frictionless surface. Two forces ( $F_{x}=15 \mathrm{lb}$ and $F_{y}=10 \mathrm{lb}$ ) are applied to it as shown. Please determine the plate's: (a) $a_{G x}$; (b) $a_{G y}$; (c) $\alpha$.



