Problem statement A window is in the shape of a $2'$ by $3'$ rectangle surmounted by a semicircle. Describe the boundary of the window as $r = f(\theta)$ in a polar coordinate system whose location and orientation you specify. The $f(\theta)$ likely will need to be defined "piecewise".

Comment A calculus course traditionally has a problem concerning this sort of window, including the rather uncommon word "surmount" as part of the description. Tradition is honored here!