



The diagram illustrates a point  $(x_0, 0)$  located on a curve. The curve is part of a larger shape that resembles a wedge or a sector of a circle, with its vertex on the left. The boundary of this shape is defined by two straight lines meeting at the vertex, drawn in a light gray color. A thick black curve is positioned within this wedge, starting from the bottom right and curving upwards and to the left, eventually meeting the top boundary line. A solid black dot marks the point  $(x_0, 0)$  on this curve. The label  $(x_0, 0)$  is placed to the left of the dot, within the wedge-shaped region.

$(x_0, 0)$