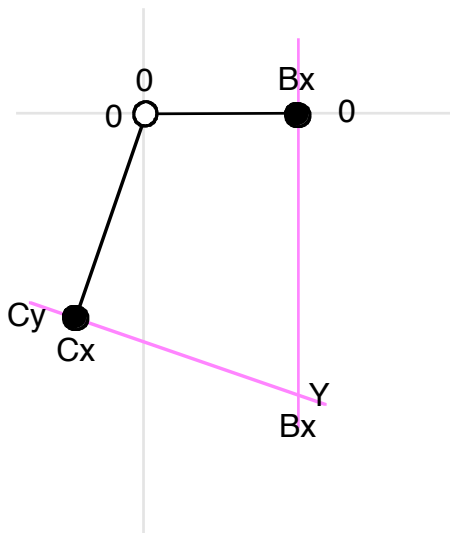Translate and rotate so that arc center is on origin, and point B is on positive X axis:

$(0-Cy)/(0-Cx) = (Bx-Cx)/(Cy-Y)$
$Cy(Cy-Y)/Cx = Bx-Cx$
$CyCy - YCy = Cx(Bx-Cx)$
$YCy = CyCy - Cx(Bx-Cx)$
$Y = (CyCy - Cx(Bx-Cx)) / Cy$
$Y = Cy - (Bx-Cx)Cx/Cy$

(Then rotate back and translate back.)