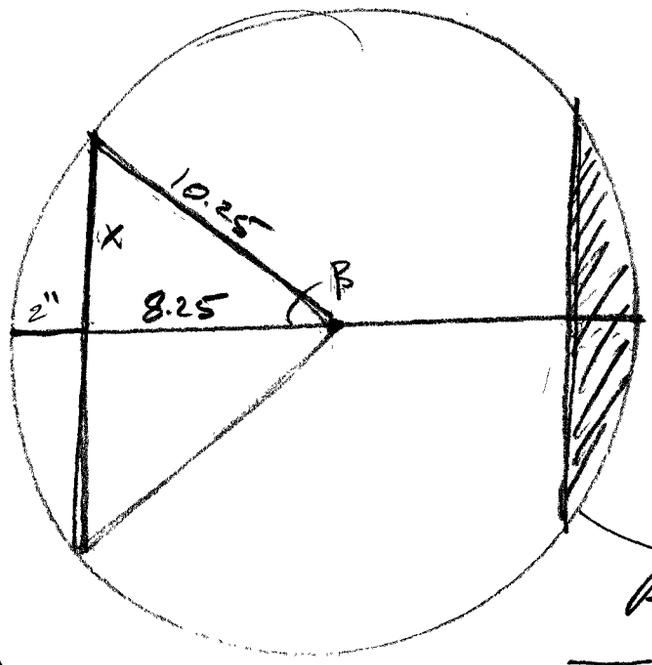
$x = \sqrt{10.25^2 - 8.25^2}$
$= 6.083$

$\frac{1}{6.083} = .164$



$h = 2$
$r = 10.25$
$c = 12.166$

$\alpha = 2\beta$

$\beta = \cos^{-1} \frac{8.25}{10.25}$
$= 36.4°$

$\alpha = 2\beta = 72.8°$

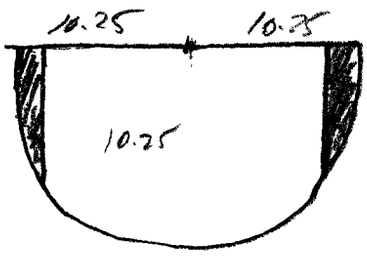
$A = \cancel{10.25(.1589)}$
$= 1.629$

$l = 13.021$

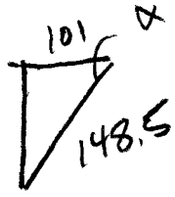
$A = \frac{1}{2}[rl - c(r-h)]$

$= \frac{1}{2}[(10.25)(13.02) - 12.166(10.25-2)]$

$= 16.54 \text{ in}^2$ Chord Area.



$A = \pi(10.25)^2 = 165$
$- \cancel{16.54}$
148.5 in



$\alpha = \cos^{-1} \frac{101}{148.5}$
$= 47°$ ⟹ 1 notch.

$52\frac{1}{2}°$
$-47°$
$5\frac{1}{2}°$

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