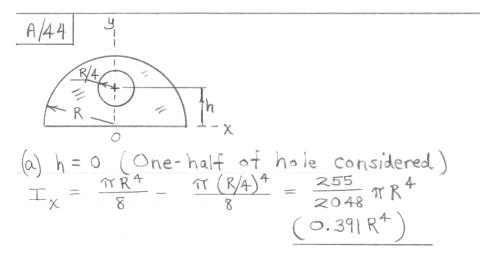
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(b)
$$h = \frac{R}{2}$$
 (Entire hole now in play)
 $\pm_{\chi} = \frac{\pi R^{4}}{8} - \left[\frac{\pi (R/4)^{4}}{4} + \pi \left(\frac{R}{4}\right)^{2} \left(\frac{R}{2}\right)^{2}\right]$

$$= \frac{111}{1024} \pi R^{4} \quad (0.341 R^{4})$$