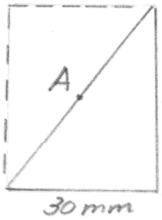
A/16 $(J_A)_{triangle} = \frac{1}{2}(J_A)_{rectangle}$



$= \frac{1}{2}\left[\frac{1}{12}A(b^2+h^2)\right]$ from Sample Prob. A/1

$= \frac{1}{24}(30)(40)(\bar{30}^2 + \bar{40}^2) = 12.5(10^4)$ mm^4

$(J_A)_{triangle} = k_A^2 A$

So $k_A = \sqrt{\frac{12.5(10^4)}{30(40)/2}} = \sqrt{208.4} = \underline{14.43 \text{ mm}}$