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| **تمرینهای استاتیک HW#11**  |
| 1. Determine by direct integration the moment of inertia of the shaded area with respect to the y axis.

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| 1. Determine the polar moment of inertia and the polar radius of gyration of the shaded area shown with respect to point P.

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| 1. Determine the polar moment of inertia about point O of the shaded area shown.
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| 1. Determine the polar moment of inertia of the area shown with respect to (a) point O, (b) the centroid of the area.

 | 1. Calculate the polar radius of gyration of the shaded area about its centroid C.
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