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