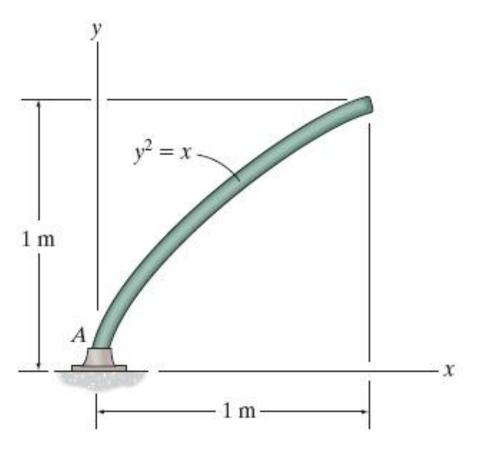
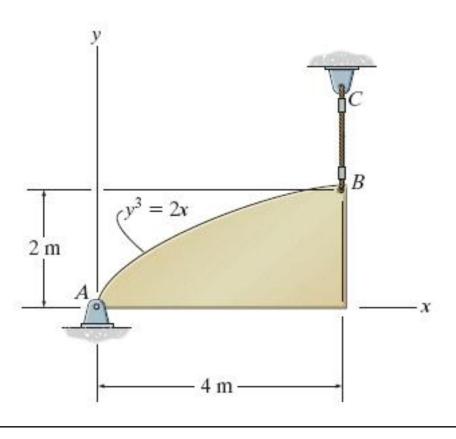


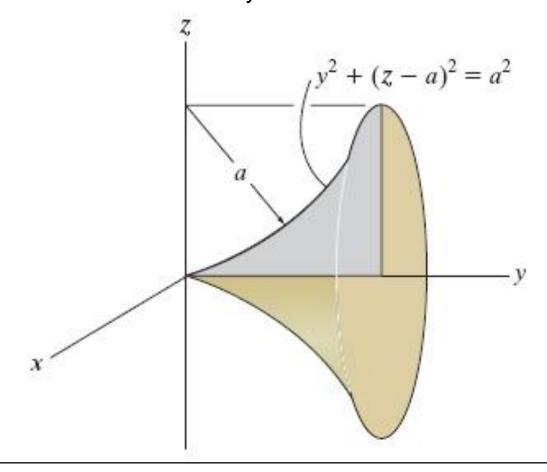
9-2. The uniform rod is bent into the shape of a parabola and has a weight per unit length of 100 N/m. Determine the reactions at the fixed support A.

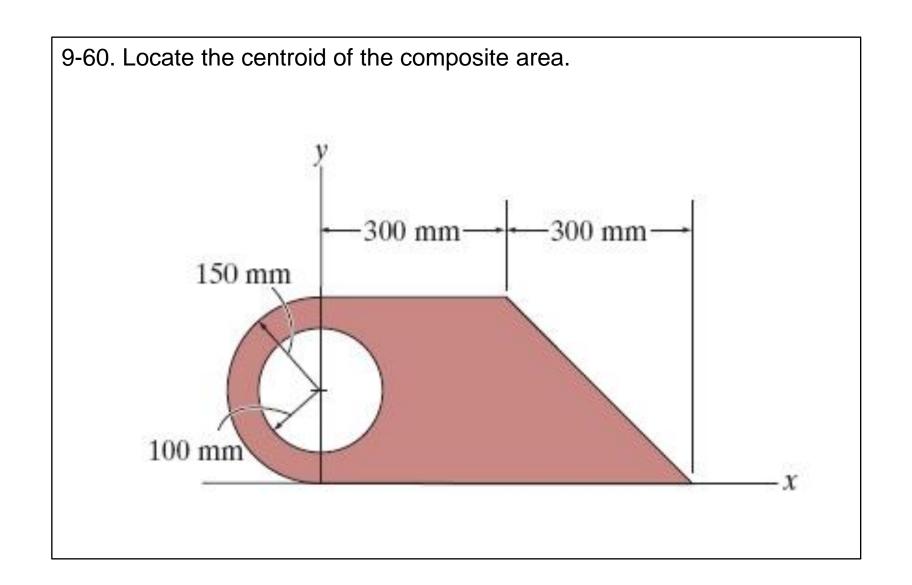


9-18. The plate is made of steel having a density of 7850 kg/m³. If the thickness of the plate is 10 mm, determine the horizontal and vertical components of reaction at the pin A and the tension in cable BC.



9-35. Locate the centroid, y_c of the homogeneous solid formed by revolving the shaded area about the y axis.





Area #		x [mm]	y [mm]	A [mm ²]	xA [mm ³]	yA [mm ³]
1	L	63.66198	150	70685.83	4500000	10602875
2	2	150	150	90000	13500000	13500000
3	3	400	100	45000	18000000	4500000
4	1	0	150	-31415.9	0	-4712389
			Sum:	174269.9	36000000	23890486
			x [mm]:	206.5761		_
			y [mm]:	137.089		

