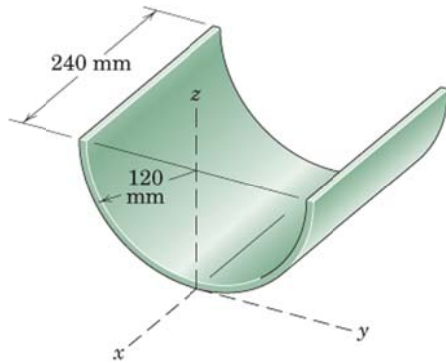


作業 10

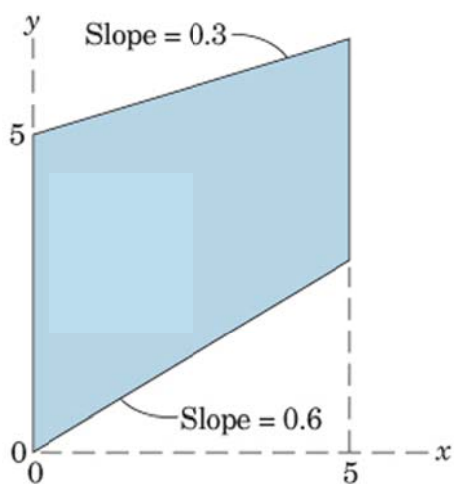
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Specify the x - and z -coordinates of the center of mass of the semicylindrical shell.



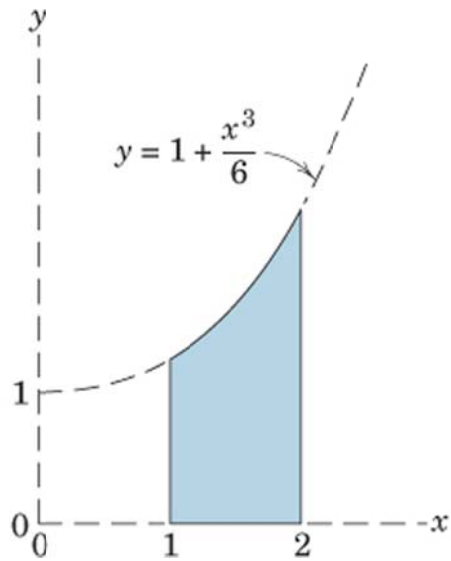
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By direct integration, determine the coordinates of the centroid of the trapezoidal area.



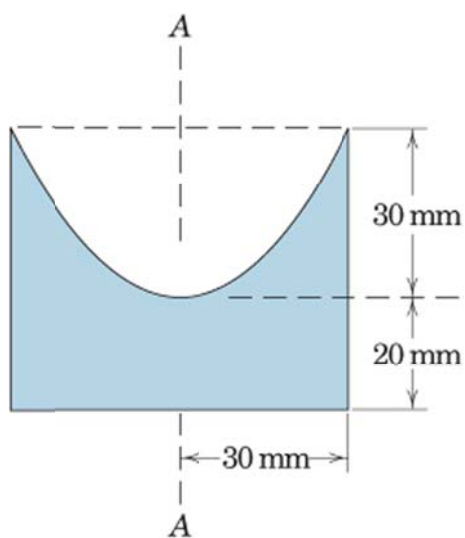
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Determine the x - and y -coordinates of the centroid of the shaded area.



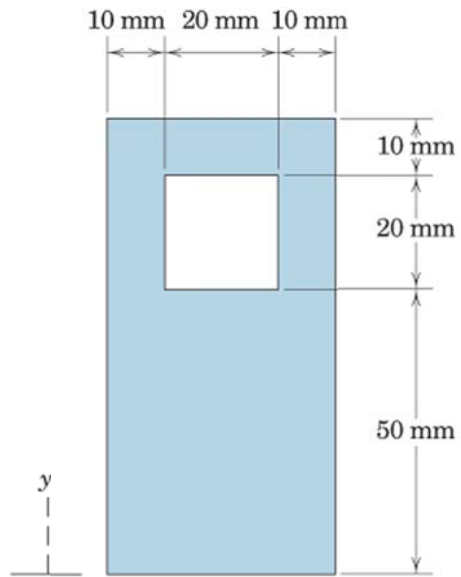
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The figure represents a flat piece of sheet metal symmetrical about axis A-A and having a parabolic upper boundary. Choose your own coordinates and calculate the distance \bar{h} from the base to the center of gravity of the piece.



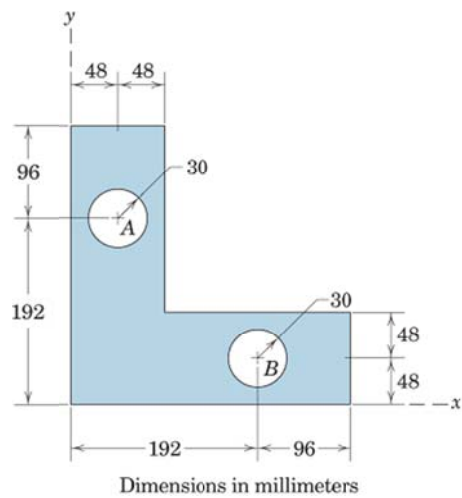
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Determine the y -coordinate of the centroid of the shaded area.



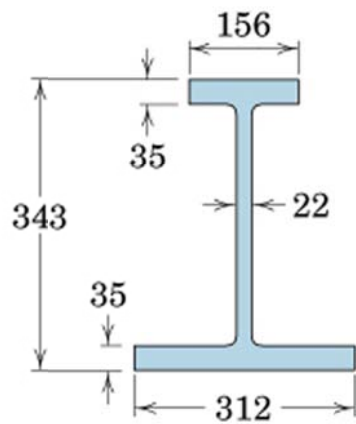
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Determine the x - and y -coordinates of the centroid of the shaded area.



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Determine the height above the base of the centroid of the cross-sectional area of the beam. Neglect the fillets.



Dimensions in millimeters

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Determine the distance \bar{H} from the bottom of the base to the mass center of the bracket casting.

