Write all responses on separate paper. Show your work for credit. Do not use a calculator.

 (30 points) Consider the area inside an ellipse with major axis AB = 4 and minor axis CD = 2, and also above the parabola passing through A, B, and C as shown below.



- (a) Introduce a coordinate system and write equations for the ellipse and the parabola relative to your coordinate system. Recall that the standard equation for an ellipse centered at the origin is \(\frac{x^2}{\sigma^2} + \frac{y^2}{\chi^2} = 1\).
- (b) Set up an integral for the area of the region above the parabola and inside the ellipse.
- (c) Evaluate the integral in part (b).
- (d) Set up an integral for the volume generated when this region is revolved about the y-axis.
- (e) Evaluate the integral in part (d).
- (30 points) A cylinder or radius r and length h is placed horizontally on the ground as shown below.
 - (a) Set up (but do not evaluate) an integral to find the total energy needed to pump water from the ground level to fill this empty cylinder.
 - (b) If h = 10 meters and r = 2 meters, what energy is generated by draining to the ground level the full cylinder to be half its height? Recall the force density of water is 9.8 × 10³N/m³



- 3. (28 points) Consider the region bounded by $y = (x 1)^2 1$ and y = x
 - (a) Sketch the region.
 - (b) Set up integral(s) for the volume generated by revolving this region about the y-axis using the "washer" method.
 - (c) Set up integral(s) for the volume generated by revolving this region about the y-axis using the "cylindrical shells" method.
 - (d) Evaluate the above integrals to see they give the same value.
- 4. (12 points) Find a simplified function for the average value of y = sin x on the interval [0, L] as a function of L.

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JS Bruner

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