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coordinates are  $r = a \sin \theta$  and  $r^2 + z^2 = b^2$ , with  $a < b$ , show that:

(a) The area of the part of the cylinder that lies inside the sphere is  $4abE(a/b, \pi/2)$ . (b) The area of the part of the sphere that lies inside the cylinder is  $2b^2 [E(a/b, \pi/2) - \frac{a}{b} E(\frac{a}{b}, \pi/2)]$ . 13.

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