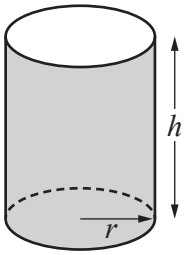
**11**




A container is a circular cylinder, open at one end, with a base radius of $r$ cm and a height of $h$ cm. The volume of the container is 1000 $cm^3$. Given that $r$ and $h$ can vary and that the total outer surface area of the container has a minimum value, find this value. [8]

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