11 A solid cone with a base: $x^2 + y^2 \leq \frac{4}{3}, z = 0$ and a vertex $A(0, 0, 2)$, a solid cylinder: $y^2 + z^2 = 1$ are placed in the three dimentional space. C is the intersection curve of the cone and the cylinder. Find the surface area of the cone surrounded by the curve C.