Find the volume of the solids described below.

- 1. The solid that lies inside the sphere $x^2 + y^2 + z^2 = 16$ and outside the cylinder $x^2 + y^2 = 4$
- 2. The solid that lies above the cone $z = \sqrt{x^2 + y^2}$ and below the sphere $x^2 + y^2 + z^2 = 8$
- 3. The solid that lies under the upper hemisphere $z = \sqrt{25 x^2 y^2}$ and above the circle $x^2 + y^2 = 5x$ in the *xy*-plane

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