

(b) Can you write down a formula for the volume of the cylinders if we use n of them?

(c) Can you use a definite integral to express the volume of the cone?

(d) What's the formula that you got for the volume of the cone?

3. Compute a formula for the volume of the sphere using the same method and definite integrals, given that the radius is r .

4. Compute a formula for the truncated cone using the previous method, given that the height is h , the bigger radius R , and the smaller radius r .