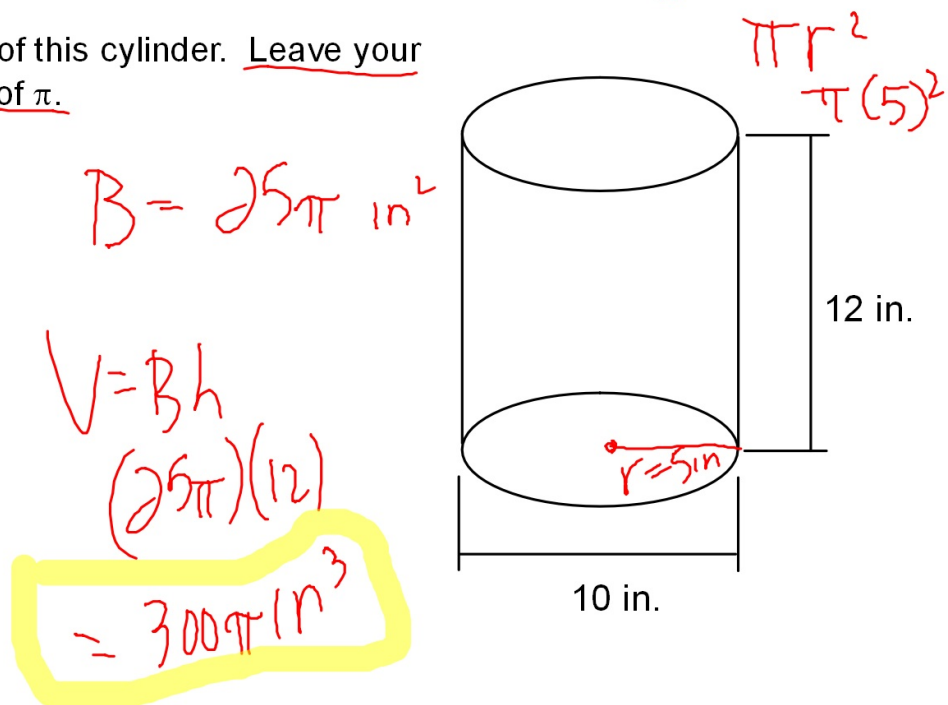


1. The Volume of any Prism or Cylinder is: $V = Bh$ where B = area of the base.

Find the volume of this cylinder. Leave your answer in terms of π .



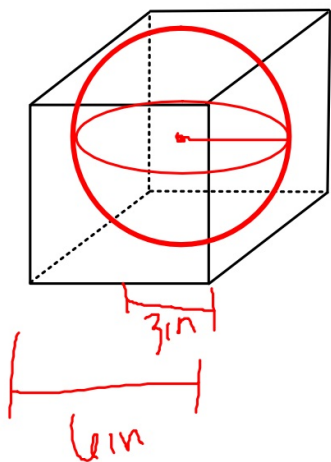
2. A sphere fits perfectly inside of a cube. On face of the cube has an area of 36 in^2 . Find the volume of the sphere. Leave answer in terms of π .

Vol of a sphere:

$$V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(3)^3$$

$$\frac{4}{3}\pi(27)$$

$$V = 36\pi \text{ in}^3$$



$$A = 36 \text{ in}^2$$

? 6 in