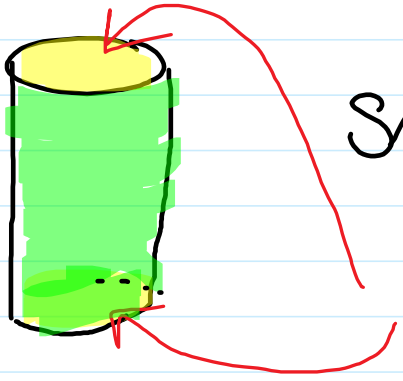
5.4 Surface Area of a Cylinder

May 4, 2016 1:51 PM

Cylinder

- a 3-D object with 2 parallel and congruent circular bases

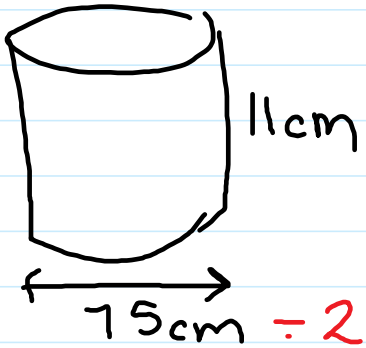


$$SA = 2\pi r^2 + 2\pi rh$$

circular faces

"top and bottom of can"

Ex. #1



$7.5 \div 2 = 3.75$ (radius)

$$SA = 2\pi r^2 + 2\pi rh$$

$$= 2\times\pi\times 3.75^2 + 2\times\pi\times 3.75\times 11$$

$$= 2\pi\times 14.063 + 259.181$$

$$= 88.357 + 259.181$$

$$= 347.538$$

$= 371.330$

$\approx \boxed{348\ cm^2}$

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