Good afternoon: no warm up today; have practice assessment out when bell rings

Do you know all of these?

Circumf. $= 2\pi \cdot r$

$A_{circle} = \pi r^2$

$V_{cyl} = \pi r^2 h$

$V_{cone} = \frac{1}{3} \pi r^2 \cdot h$

Reminders

-tutoring tomorrow 4-5p

-retakes available in DS...your responsibility to retake all grades <96 !!!

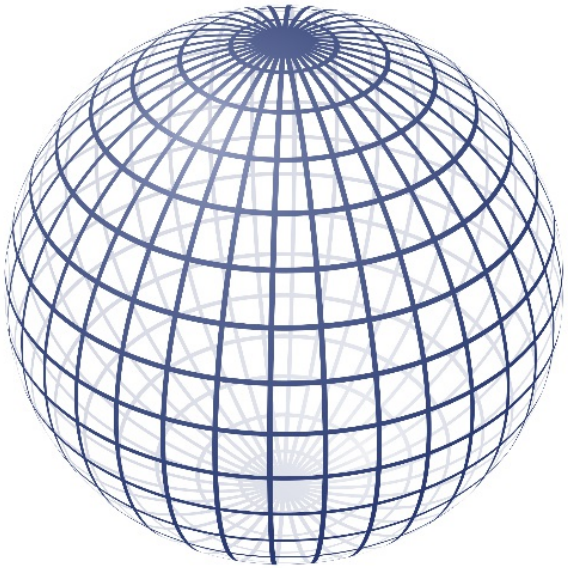
Assessment

-Be sure your name is on it

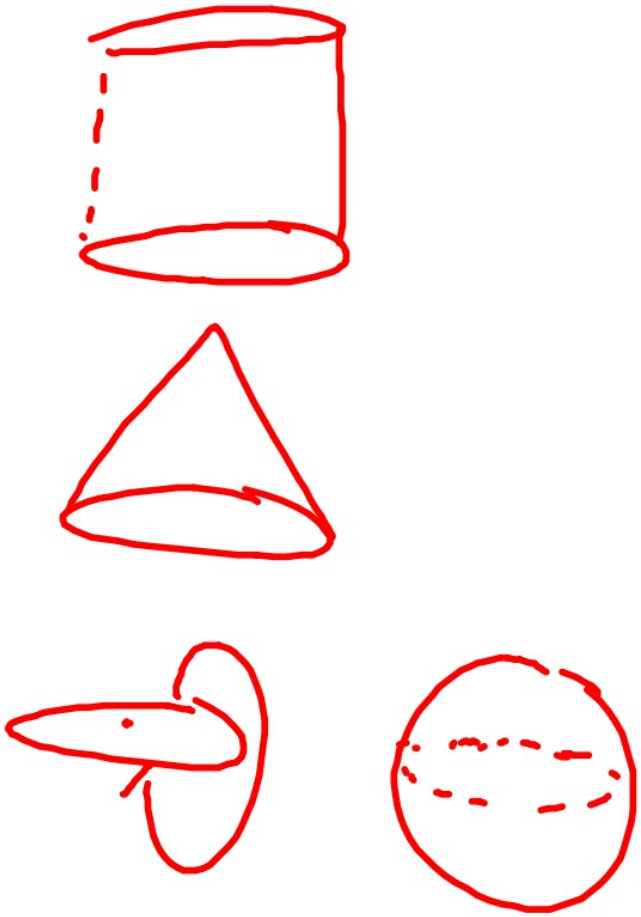
-Show all work, use cover sheet

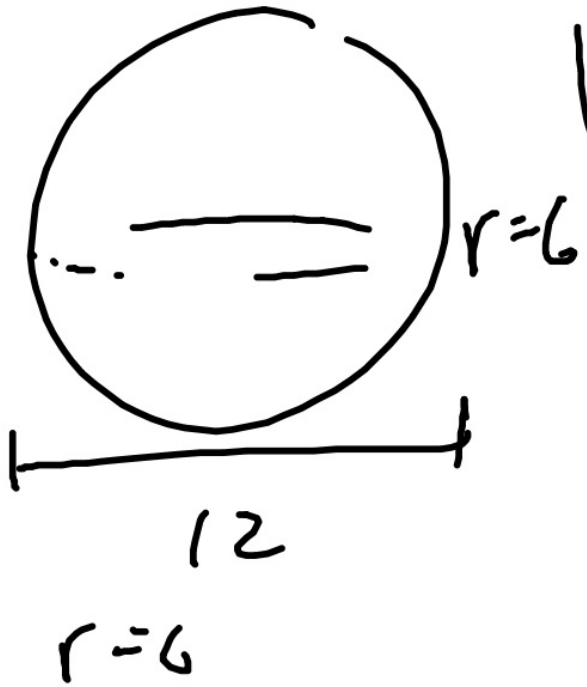
-When finished, hand it to me/basket and pick up a "Cardioid" handout and try it out!

Volume of a Sphere (NOTES)



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





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

$$V = \frac{4}{3}\pi(6^3) \approx 904.7\ldots$$

$$\frac{4}{3} \cdot \pi \cdot 216$$

$$288\pi$$

250 mL of water ~~is~~ are frozen into slush and reshaped into a spherical snowball. What is the approximate diameter of the snowball? (1 mL = 1cm^3)

$250\text{ mL} = 250\text{ cm}^3$

Volume

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

$\frac{250}{\frac{4}{3}\pi} = \frac{\frac{4}{3}\pi r^3}{\frac{4}{3}\pi}$

$\sqrt[3]{59.683} = \sqrt[3]{r^3}$

$3.91 = r$

$\frac{12}{1.36} = \frac{9.3x}{9.3}$

$2 = x$

Homework:

p. 531: 11, 15, 16, 18

Complete the cardioid (if you want :))