

Math 8

Our Goal: To review for the quiz

Warm Up: Turn in your homework with your name on it, please

Today's classwork

- Textbook practice quiz
- iready due Friday

Previous homework

Handout 8.2 Practice

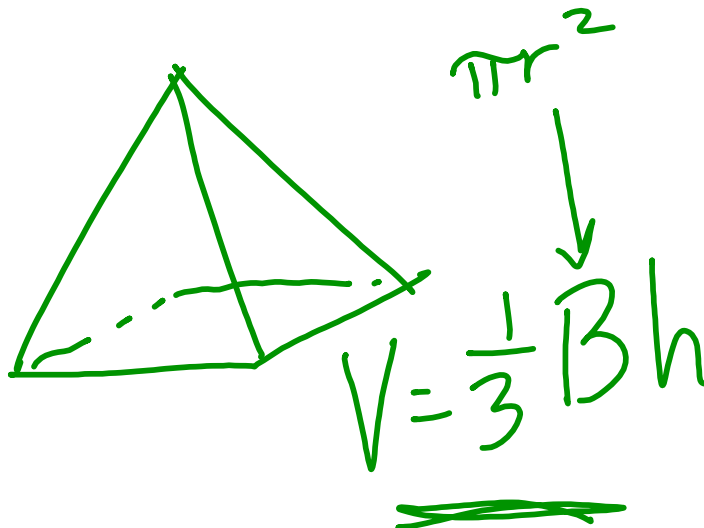
Cone

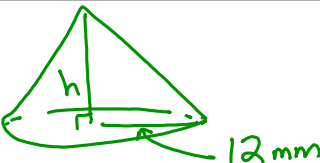
$$V = \frac{1}{3} \cdot \pi r^2 \cdot h$$

Cylinder

$$V = \pi r^2 \cdot h$$

cone = circular pyramid





$V = 300\pi$
 $V = \frac{1}{3}\pi r^2 h$
 $300\pi = \frac{1}{3}\pi(12^2)h$
 $300\pi = \frac{1}{3}\pi \cdot 144h$

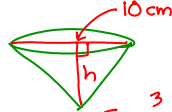
$$\frac{300\pi}{48} = \frac{48\pi h}{48}$$

$$h = \frac{300}{48} = 6.25$$

$$3 \overline{)144}$$

$$\underline{12}$$

$$24$$



$V = 78.5 \text{ cm}^3$
 $V = \frac{1}{3}\pi r^2 h$
 $78.5 = \frac{1}{3}\pi \cdot 5^2 h$
 $3 \cdot 78.5 = \frac{1}{3}\pi \cdot 25 \cdot h \cdot 3$

$$\frac{3(78.5)}{\pi} = \frac{\pi \cdot 25 \cdot h}{\pi}$$

$$\frac{3(78.5)}{\pi \cdot 25} = \frac{25h}{25}$$

$$h = \frac{3(78.5)}{25\pi}$$

$$3 \times 78.5 \div (25 \times \pi)$$

$$V = 78539.9$$

$$(78539.81634)$$

Unit 7 quiz topics:

- Finding the volume of a cylinder
- Finding the volume of a cone
- Finding dimensions of a cylinder given the volume
- Finding dimensions of a cone given the volume