Math 181 Monday, February 15

WW 6.2.4

Pre-Exam Problem Session / Review

Tue- Exam C 5, 6

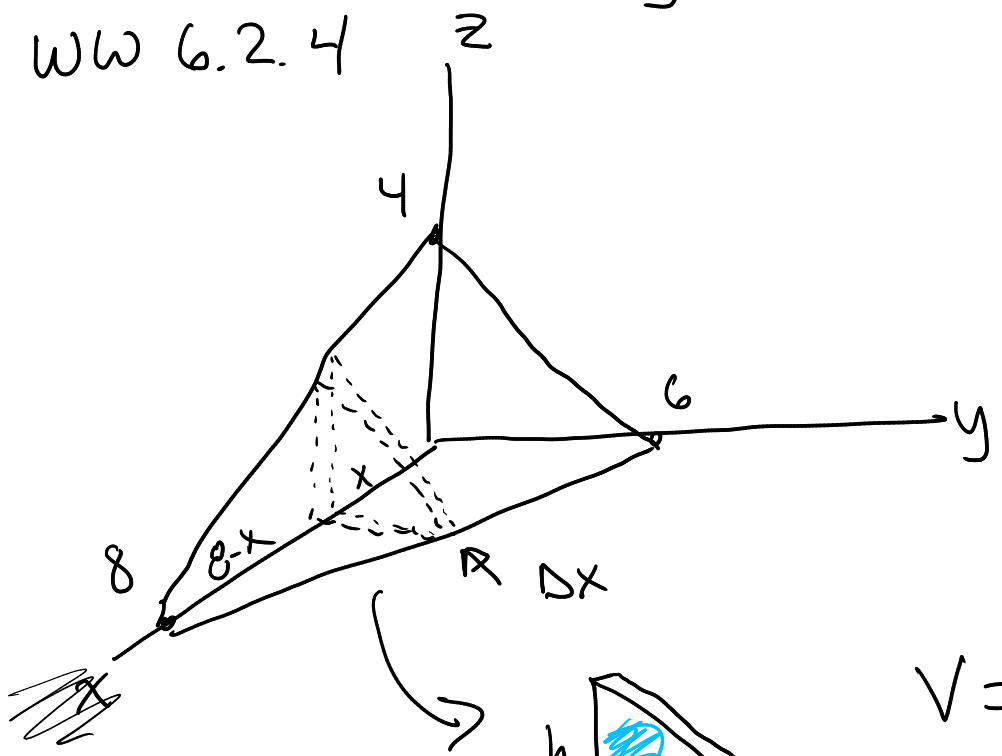
BREAK

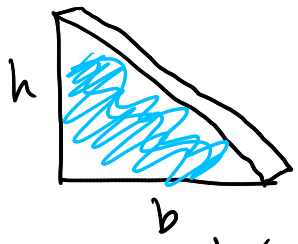
Mon- 7.2

No calculators, $.33 \neq 1/3$ $.3\overline{3}$

Code - 4 chars

Envelope $x = 8$





$$V = \int dV = \int_{x=0} A(x)\,dx = \int \frac{3}{16}(8-x)^2\,dx$$

$$\frac{h}{4} = \frac{8-x}{8}$$

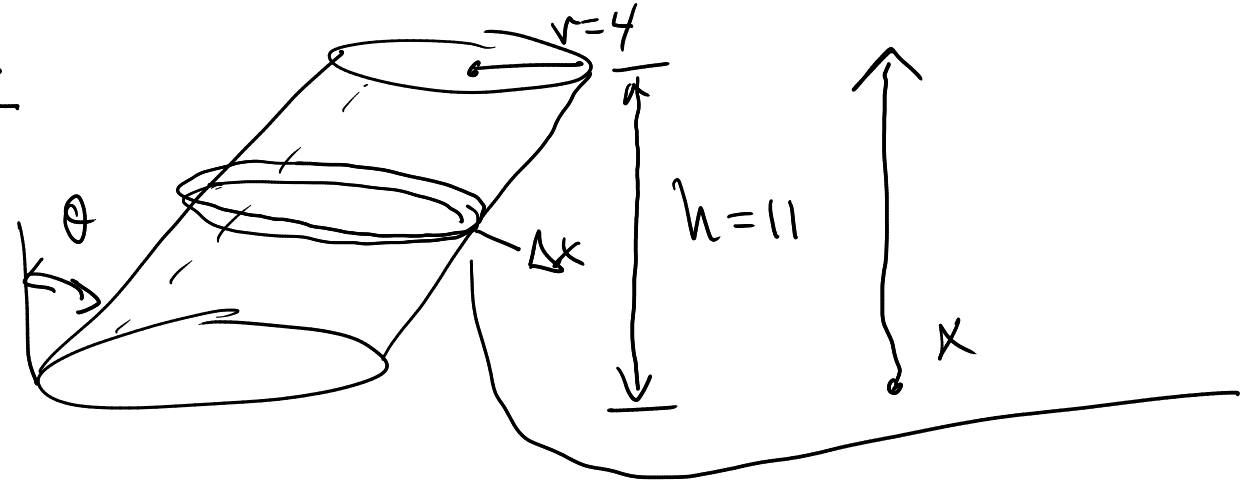
$$\frac{b}{6} = \frac{8-x}{8}$$

$$h = \frac{1}{2}(8-x)$$

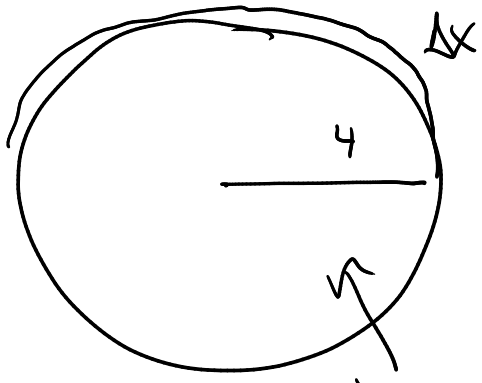
$$b = \frac{3}{4}(8-x)$$

$$A(x) = \frac{1}{2}bh = \frac{1}{2}\left[\frac{3}{4}(8-x)\right]\left[\frac{1}{2}(8-x)\right] = \frac{3}{16}(8-x)^2$$

WW 6.2.2



$\theta = 60°$



$A(x) = \pi(4)^2 = 16\pi$

$$V = \int dV = \int_{x=0}^{x=11} A(x)\,dx$$

$$= \int_{x=0}^{x=11} 16\pi\,dx$$