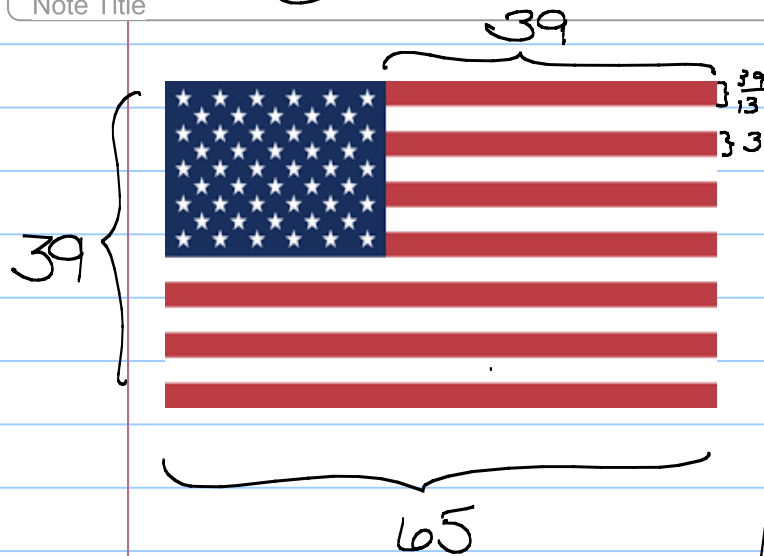


Quiz Q&A

Note Title

2/11/2016



$$\text{Whole} : 65(39) = 2535$$

$$\text{red} : 4 \text{ short } (39)(3)$$

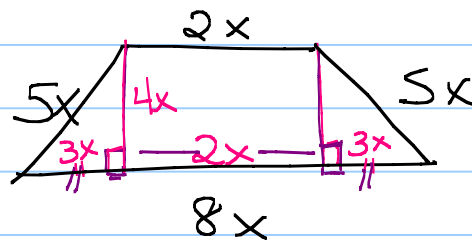
$$3 \text{ long } (65)(3)$$

$$468 + 585 = 1053$$

$$\frac{\text{red}}{\text{whole}} : \frac{1053}{2535} = \frac{27}{65}$$

11.3 + 11.4 Q&A

11.3.16:



$$A = 245$$

$$A = \left(\frac{8x + 2x}{2} \right) \cdot 4x$$

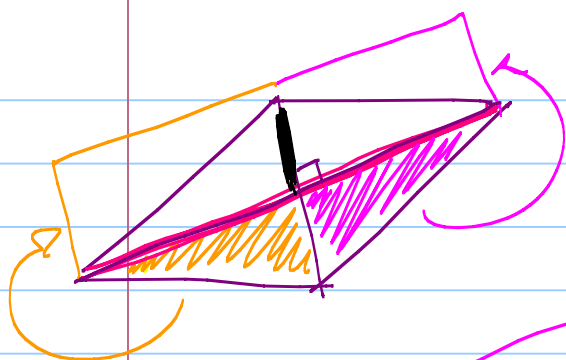
$$\frac{245}{20} = \frac{5x(4x)}{20}$$

$$\frac{49}{4} = x^2$$

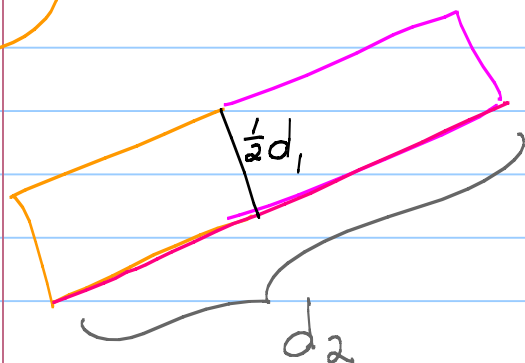
$$\frac{7}{2} = x$$

$$\text{Find } h : 4\left(\frac{7}{2}\right) = 14$$

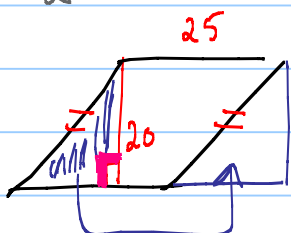
$$\& P : 20\left(\frac{7}{2}\right) = 70$$



$$A_{KITE} = \frac{1}{2} \cdot d_1 \cdot d_2$$



11.4.5b:

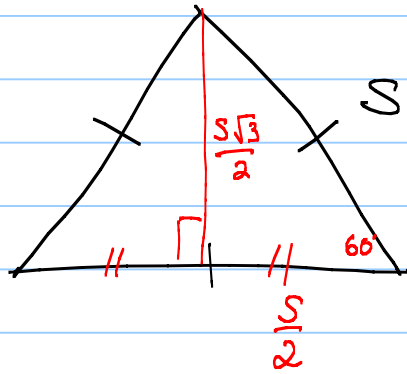


$$\Rightarrow 20 \cdot 25 = 500$$

11.1 - 11.4 Quiz tomorrow (10g @ 5 pts ea)

11.5 Areas of Reg Poly

Th 106

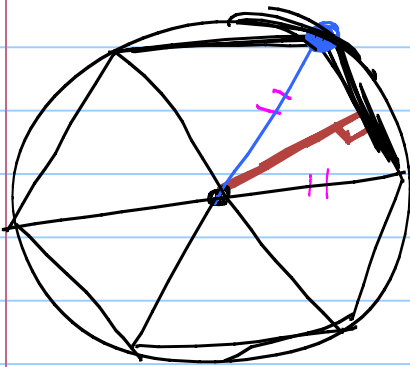


30	60	90
x	x	x
$\frac{s}{2}$	$\frac{s\sqrt{3}}{2}$	s

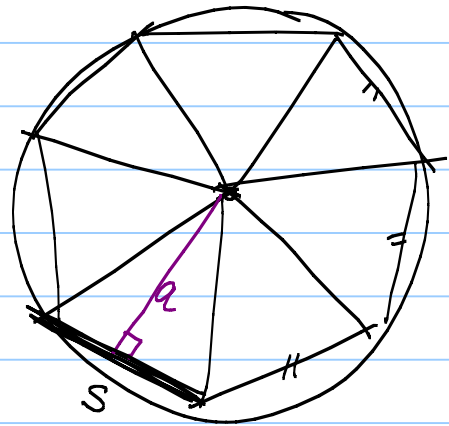
Then $A = \frac{1}{2} \text{ base} \cdot \text{height}$

$$\frac{1}{2} \cdot \frac{s}{1} \cdot \frac{s\sqrt{3}}{2} = \frac{s^2\sqrt{3}}{4}$$

Vocab



RADIUS $\rightarrow$
APOTHEM



$$A_{\text{poly}} = (\text{count sides})(A_{\Delta})$$

$$= n \cdot \frac{1}{2} s \cdot a$$

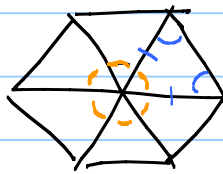
$$= \frac{1}{2} a \underbrace{n \cdot s}$$

$$= \frac{1}{2} a p$$

TID 7

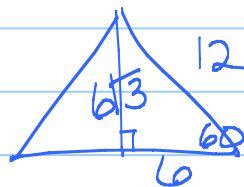
11.5.5 :

$$r_{\text{HEX}} = 12$$



$$\frac{360}{6} = 60^\circ$$

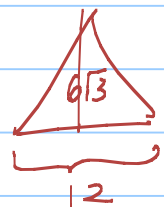
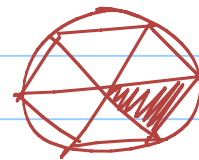
6 equil $\triangle$ $s = 12$



30, 60, 90

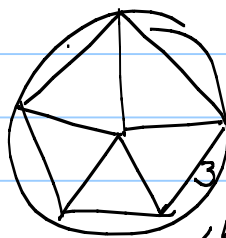
apothem : $6\sqrt{3}$

$$\left. \begin{aligned} \text{area} &= \frac{1}{2} a p \\ &= \frac{1}{2} (6\sqrt{3}) (6 \cdot 12) \\ &= 216\sqrt{3} \end{aligned} \right\}$$



$$\begin{aligned} 1\Delta &= \frac{1}{2} 12 \cdot 6\sqrt{3} \\ &= 36\sqrt{3} \\ 6\Delta &= 6(36\sqrt{3}) \\ &= 216\sqrt{3} \end{aligned}$$

Ex Reg pent
 $s = 3$



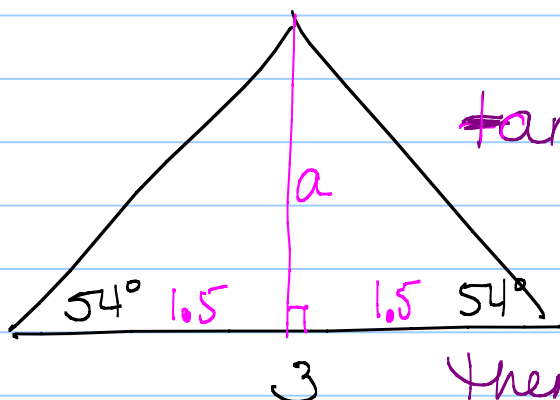
5 isos $\triangle$

$$\angle A = \frac{360}{5} = 72 \text{ then}$$

$$2x + 72 = 180$$

$$2x = 108$$

$$x = 54^\circ$$



$$\tan(54) = \frac{a}{1.5}$$

$$a = 1.5(\tan 54)$$

$$\text{then } A = \frac{1}{2} a (p) = \left[\frac{1}{2} (1.5 \tan 54) (5 \cdot 3) \right]$$

$$A = 15,48$$

, .