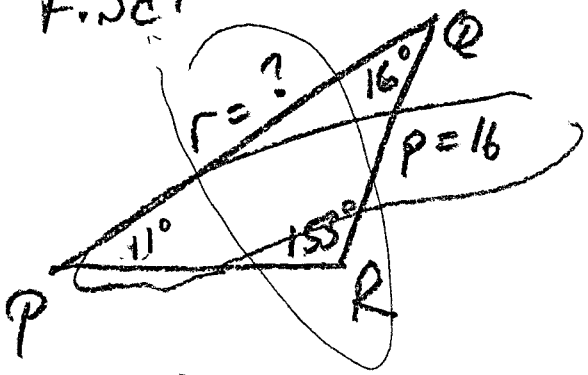
Algebra 2 FRIDAY 2-1-13 (COS-) CLASSNOTES

(5) $\triangle RPQ$ $m\angle R = 153^\circ$ $m\angle Q = 16^\circ$

ID2 Find r $\text{REF}\angle = 27^\circ$ $p = 16$




$$\frac{\sin 11^\circ}{16} = \frac{\sin 27^\circ}{r}$$

$$\frac{r \sin 11^\circ}{\sin 11} = \frac{16 \sin 27}{\sin 11} = \frac{16(.4540)}{(.1908)}$$

$$= \frac{7.264}{.1908}$$

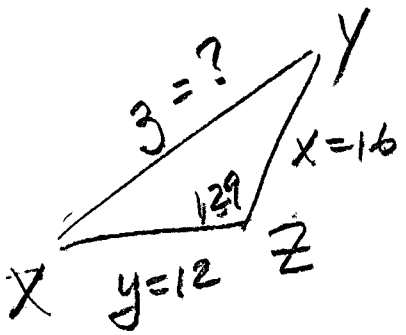
$$r = 38.07$$

(7) $\triangle ZXY$ $x=16$, $y=12$

ID1

$m\angle Z = 129$

ref $= 51°$




$$A = \frac{1}{2}(16)(12)(\sin 51°)$$

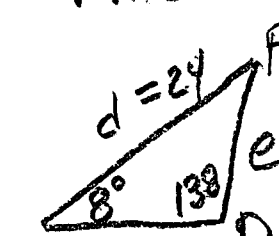
$$A = 96(.7771)$$

$$\boxed{A = 74.6016}$$

---

(6) $\triangle DEF$ $m\angle D = 138$ $m\angle E = 8°$ $d = 24$

ID1 Finde ref $= 42°$




$$\frac{\sin 42}{24} = \frac{\sin 8}{e}$$

$$\frac{24}{\sin 42} \cdot \frac{e \sin 42}{24} = \sin 8 \cdot \frac{24}{\sin 42}$$

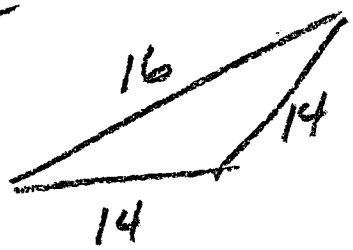
$$e = \frac{\sin 8 \cdot 24}{\sin 42}$$

$$e = \frac{(.1392)24}{(.6691)}$$

$$\boxed{e = \frac{3.3408}{.6691} = 4.9928}$$

(10) $\triangle PKH$ $p = 16$ $h = 14$ $K = 14$

ID2




Perimeter = 44

$\therefore s = 22$

$$A = \sqrt{s(s-14)(s-14)(s-16)}$$

$$= \sqrt{22(8)(8)(6)}$$

$$= \sqrt{176.48} \qquad = \sqrt{8448}$$

$$\boxed{A \doteq 91.91 \text{ units}^2}$$

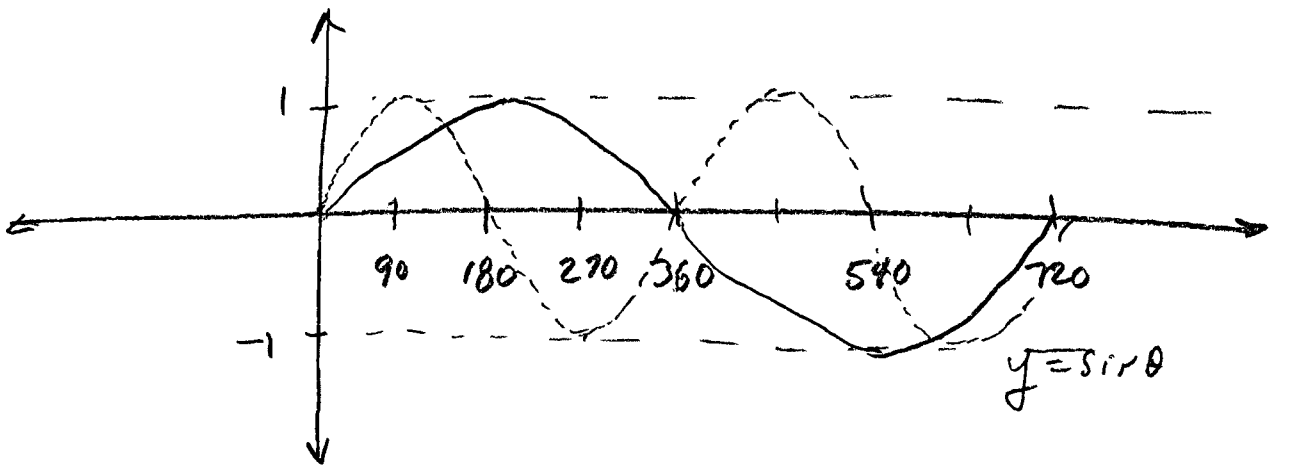
Exam Review

(16) graph $y = \sin\frac{\theta}{2} = \sin\frac{1}{2}\theta$

ID 2

$b = \frac{1}{2}$

$\text{period} = \frac{360}{\frac{1}{2}} = 720^\circ$



(18) ID2 Amp/per $y = 6\sin(8\theta - 30) - 4$

$$\text{Amp} = |6|$$

$$\text{per} = \frac{360}{|b|} = \frac{360}{8} = 45^\circ$$