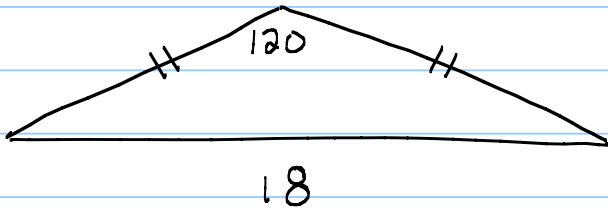
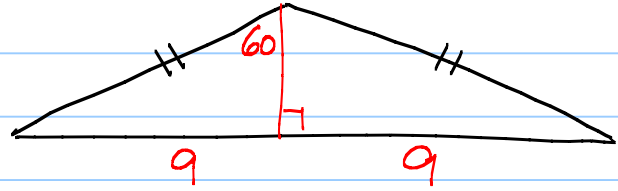


9.7

Q2



alt $\rightarrow$ $\angle$ bis
 $180^\circ \Delta \Rightarrow$ alt = med



$$\begin{array}{c} 30 \\ x \end{array}$$

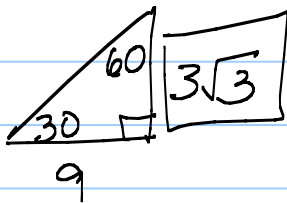
$$\begin{array}{c} 60 \\ x\sqrt{3} \\ 9 \end{array}$$

$$\begin{array}{c} 90 \\ 2x \end{array}$$

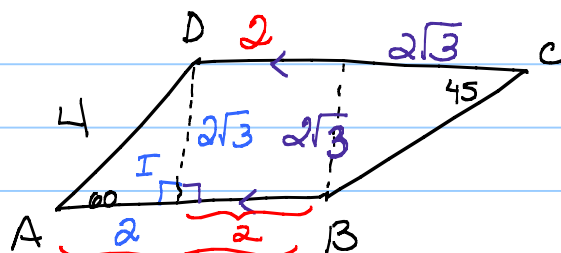
$$\frac{\sqrt{3}}{\sqrt{3}} = \frac{9}{x\sqrt{3}}$$

$$\frac{9\sqrt{3}}{3} = x$$

$$3\sqrt{3} = x$$



25. $\square ABCD$ trap, $\overline{DC} \parallel \overline{AB}$



$$\begin{array}{ccc} 30 & 60 & 90 \\ x & x\sqrt{3} & 2x \\ & 4 & \end{array}$$

$$\begin{array}{ccc} 45 & 45 & 90 \\ x & x & x\sqrt{2} \\ & 2\sqrt{3} & \end{array}$$

$$x = 2$$

$$\boxed{DC = 2 + 2\sqrt{3}}$$

$$\text{then } BC = \frac{2\sqrt{3} \cdot \sqrt{2}}{2\sqrt{3}}$$

probably every day next week
Future pop quiz, 1 question:

What are 6 families of rt $\triangle$ you need to know

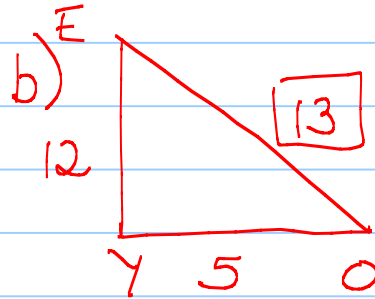
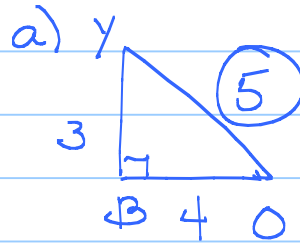
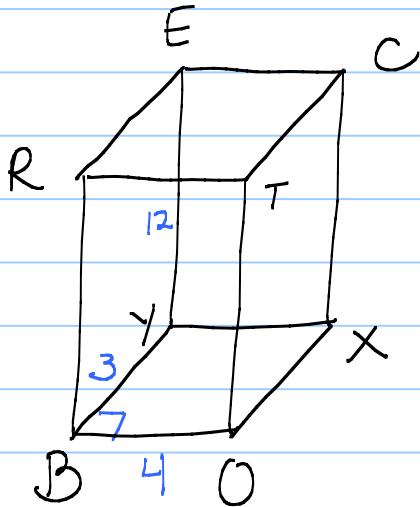
- ① $30-60-90 \Leftrightarrow x - x\sqrt{3} - 2x$
- ② $45-45-90 \Leftrightarrow x - x - x\sqrt{2}$
- ③ $3, 4, 5$
- ④ $5, 12, 13$
- ⑤ $7, 24, 25$
- ⑥ $8, 15, 17$

9.8 Problems 1, 2, 5, 13, 14

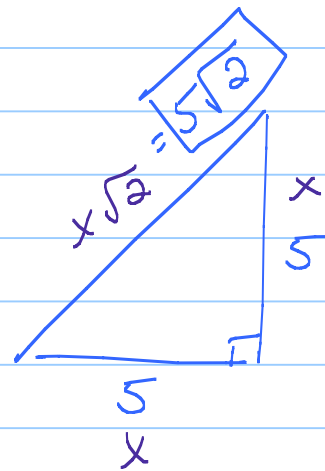
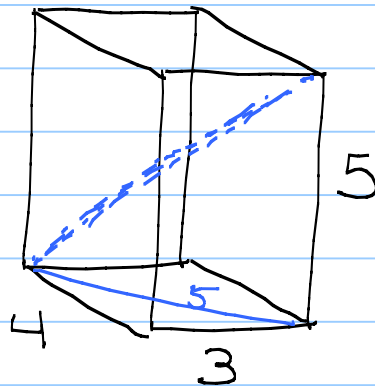
1. G: Rect Solid $BY = 3$ $OB = 4$ $EY = 12$

F a) YO (diag of face $BOXY$)

b) EO (diag of solid)



2. Find Diag



3. Reg sq pyr

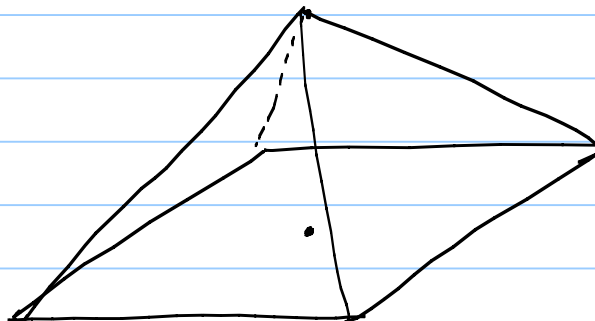
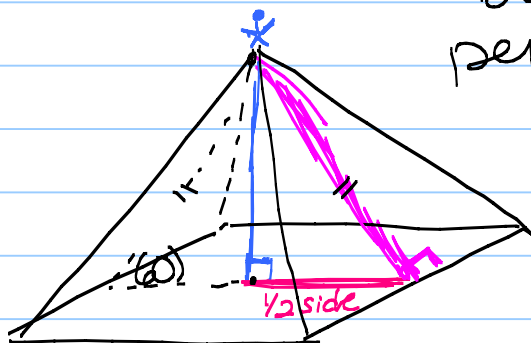
slant AF

alt AC

base BCDE

per base = 40

$\Rightarrow$ side = 10

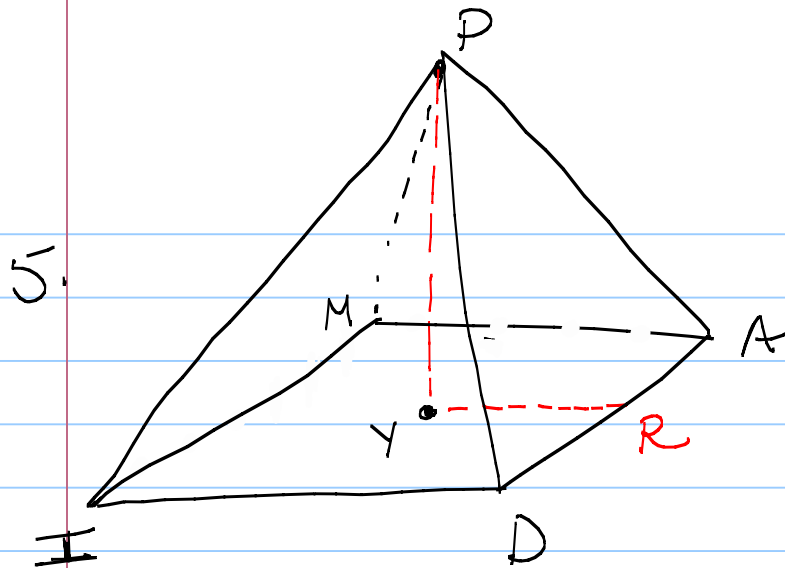


30
x
5

60
x $\sqrt{3}$
5 $\sqrt{3}$

90
2x
10

alt slant height



Reg sg

$$ID = 14$$

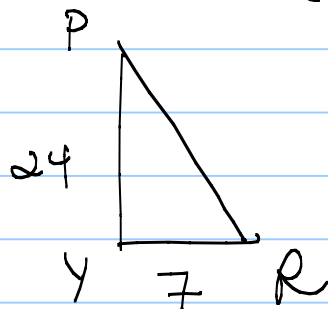
$$PY = 24$$

alt PY
slant ht PR

a) $AD = 14$ (sg $\Rightarrow \cong$ sds)

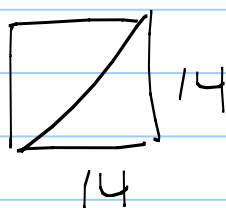
b) $YR = 7$ ($\frac{1}{2}$ sd)

c) $PR = 25$ (special)



d) $\text{perim } AMID = 4(14) = 40 + 16 = 56$

e) diag base



$$\begin{array}{r} 45 \\ \times \\ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 90 \\ \times \quad \times \sqrt{2} \\ \hline \boxed{14\sqrt{2}} \end{array}$$