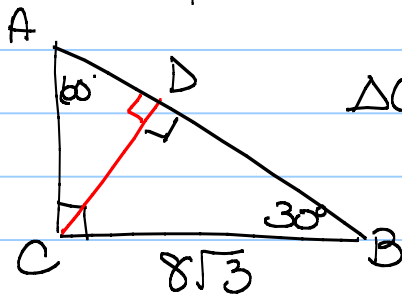
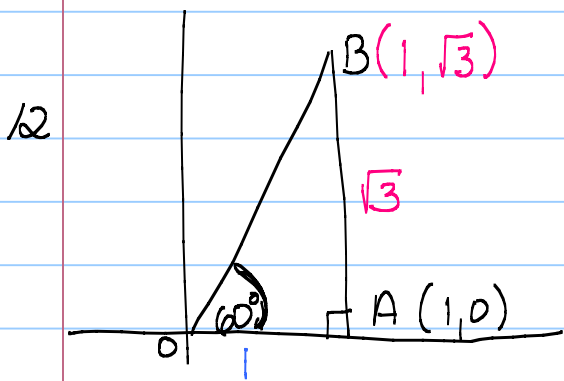


9.7: 8) $G: \overline{AB} \perp \overline{BC}, \overline{CD} \perp \overline{AB}, \angle B = 30^\circ, \& \overline{BC} = 8\sqrt{3}$



$\triangle CDB$ 30 60 90
 $x \quad x\sqrt{3} \quad 2x$
 $\boxed{CD} \quad 8\sqrt{3}$

Then $\frac{1+8\sqrt{3}}{2} = \frac{2x}{2}$
 $4\sqrt{3} = x$



a) $B: (1, \sqrt{3})$

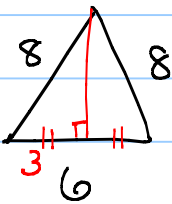
b) slope $\overline{OB} = \frac{\Delta y}{\Delta x} \therefore \frac{\sqrt{3}-0}{1-0} = \frac{\sqrt{3}}{1}$ or $\sqrt{3}$

30
 x
 1
 60
 $x\sqrt{3}$
 \boxed{AB}
 $\sqrt{3}$
 90
 $2x$

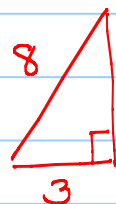
c) $\frac{AB}{OA} = \frac{\sqrt{3}}{1} \therefore \tan 60^\circ = \sqrt{3}$

Rev

8

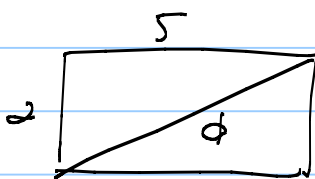


isos $\triangle \Rightarrow$ alt also med



$(3 \sqrt{55} 8)$
 $64 - 9 = 55$

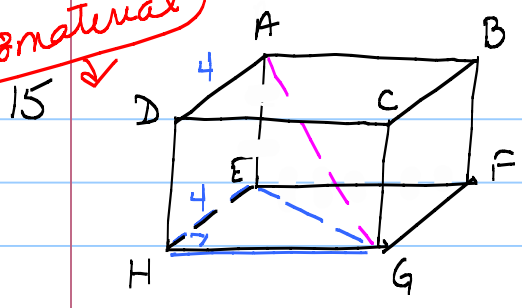
10



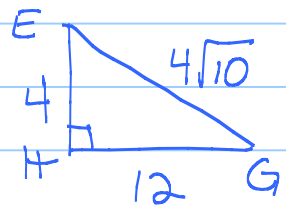
(2 5 d)
 $leg^2 + leg^2 = hyp^2$
 $2^2 + 5^2 = d^2$

$4 + 25 = 29 \therefore d = \sqrt{29}$

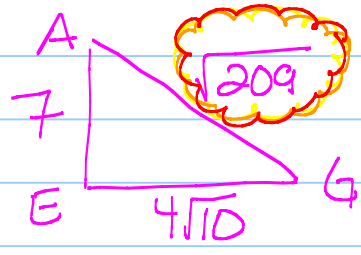
9.8 material



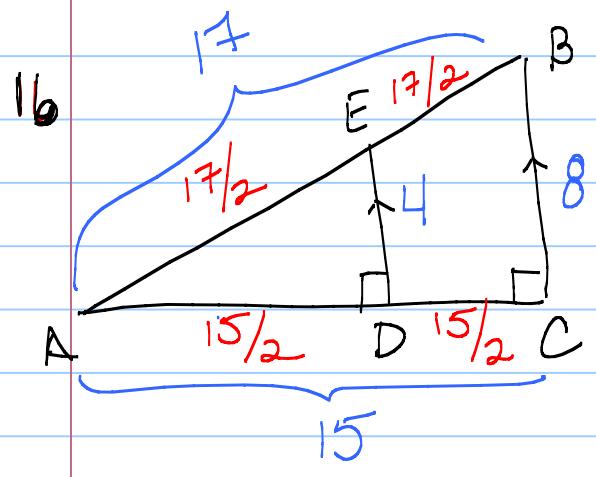
$HG = DC = 12$ $AE =$ $EH =$
 $CG = 7$ $AD = 4$



$4(1 + 3\sqrt{10})$
 $1 + 9$

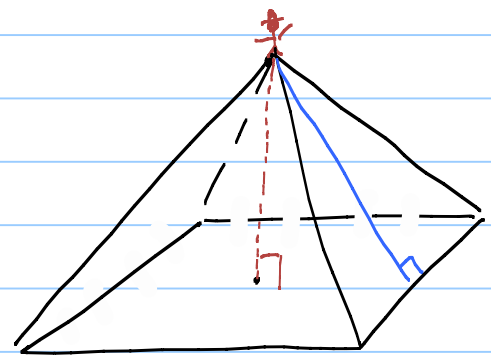


$7^2 + (4\sqrt{10})^2 =$
 $49 + 160 = 209$



$DE = \frac{1}{2} BC \therefore DE$ is a midline
 $\& E \& D$ are mdpts.

9.8: Pyth Thm in Space 1-6, 14, 15

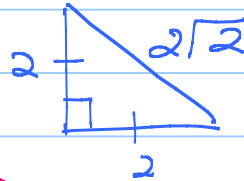
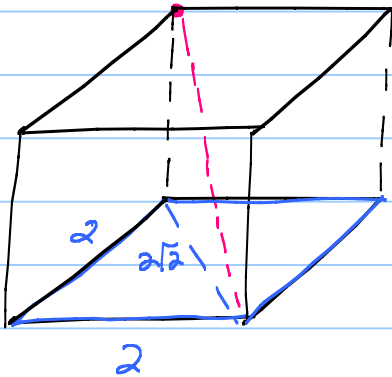


sq pyramid

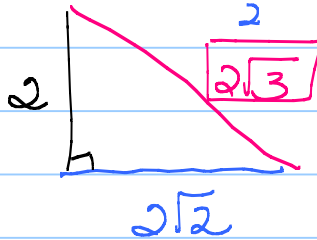
Slant height \Rightarrow slide down side

altitude

9.8:15 find diag cube \Rightarrow edge is 2



45	45	90
x	x	$x\sqrt{2}$
2	2	$2\sqrt{2}$



$2(1, \sqrt{2}, \sqrt{3})$
 $1+2=3$

HOMEWORK:

9.8: 413/1-6, 14, 15

Chapter review (p 429) 24, 27, 29, 30

D7

2/16/16

1) QUIZ while I hand back papers

2) Q&A 9.7 & REVIEW

9.7

2

3) 9.8 & Review

9.8

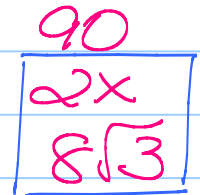
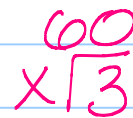
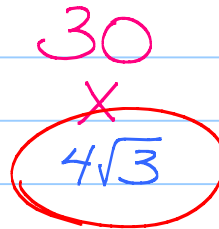
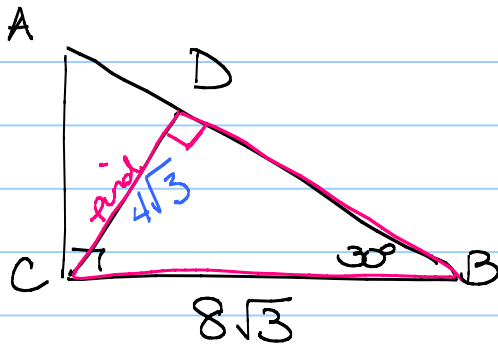
2d

12

12

8

9.7.8

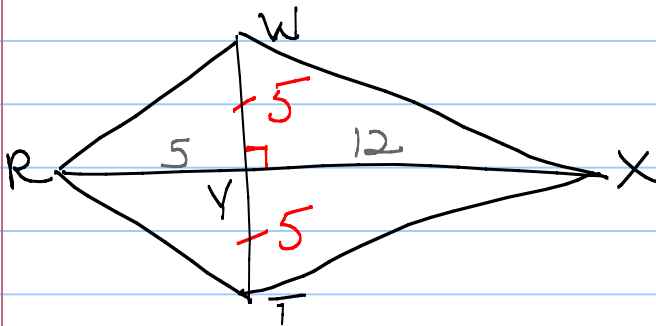


$$\frac{2x}{2} = \frac{8\sqrt{3}}{2}$$

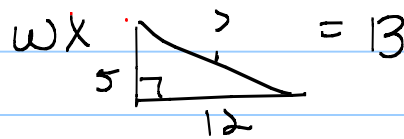
$$x = 4\sqrt{3}$$

$$DB: (4\sqrt{3})\sqrt{3} = 4 \cdot 3 = 12$$

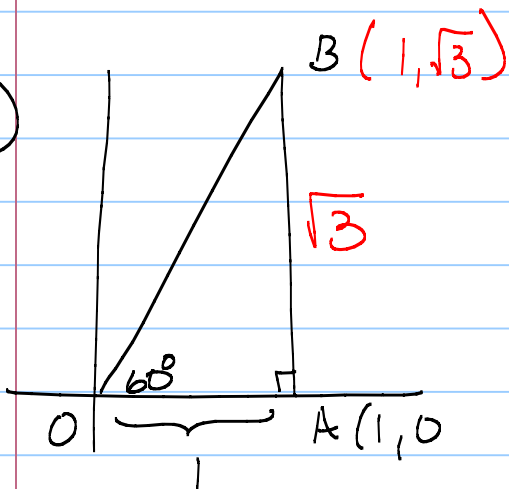
9



$$TR = 5\sqrt{2}$$



(12)



30

60

90

x

x*sqrt(3)

2x

1

AB

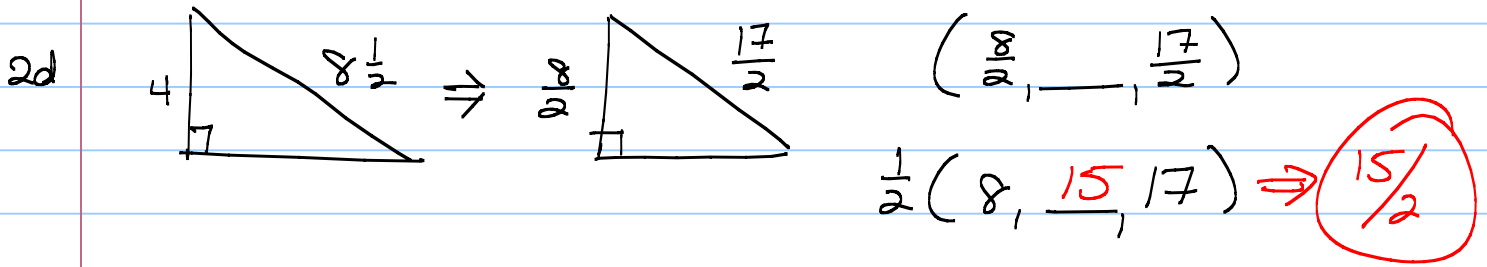
sqrt(3)

a B: (1, sqrt(3))

b slope \overline{OB} : $\frac{\Delta Y}{\Delta X} = \frac{\sqrt{3}}{1} = \sqrt{3}$ or $\sqrt{3}$

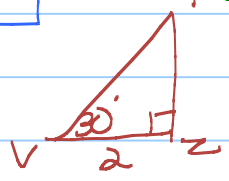
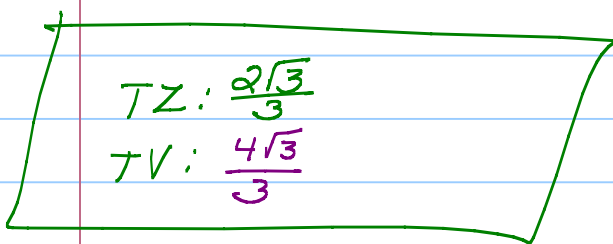
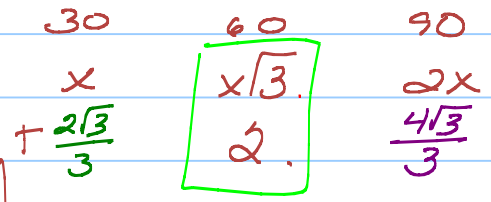
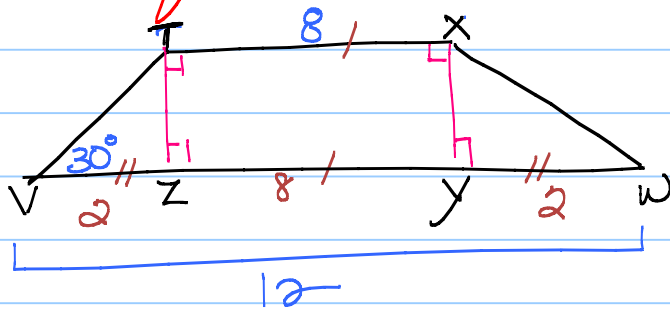
c $\frac{AB}{OA}$ or $\tan 60^\circ = \frac{\sqrt{3}}{1}$ or $\sqrt{3}$

Rev 2d & 12



Ident fam: 8-15-17

12



$$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{2}{\sqrt{3}}$$

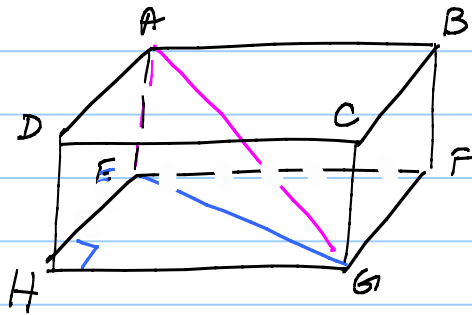
$$x = \frac{2\sqrt{3}}{\sqrt{3}\sqrt{3}}$$

$$x = \frac{2\sqrt{3}}{3}$$

9.8: Pyth Thm in Space

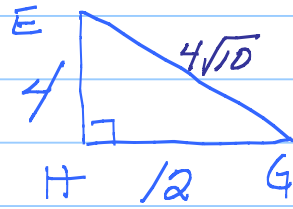
Vocab \rightarrow tissue box

Rev 15)

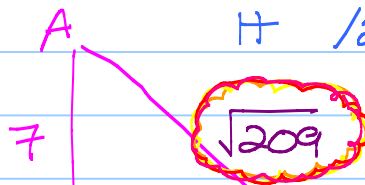


$HG = DC = 12$
 $EH = AD = 4$

$AE = CG = 7$



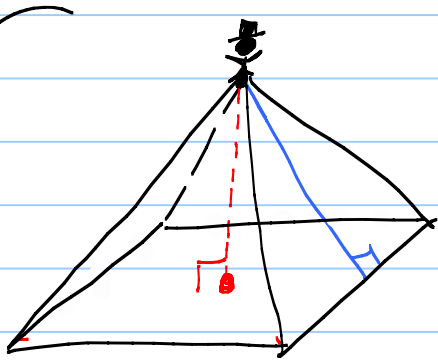
$(4, 12, EG)$
 $4(1, 3, \sqrt{10})$
 $1+9$



$7^2 + (4\sqrt{10})^2 =$
 $49 + 160 = 209$

MOST MIS TAKES

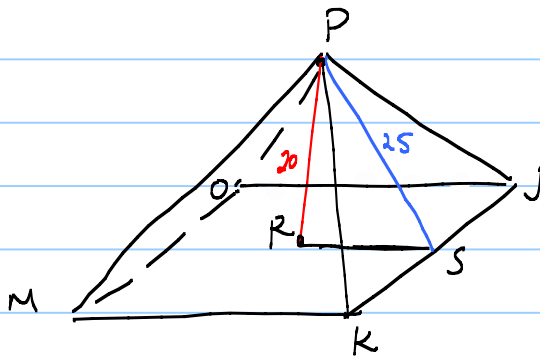
CONFUSE THESE



slant height \Rightarrow slide down side

altitude of pyramid \Rightarrow height pyramid

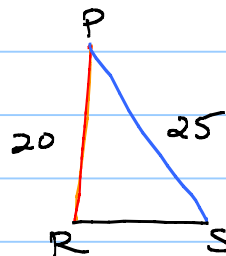
14:



$PR = 20$

$PS = 25$

find P base JKMO:



$(20, _, 25)$
 $5(4, \underline{3}, 5)$
 $RS = 15$

$MK = 30$

$JKMO = 4(30) \text{ or } 120$

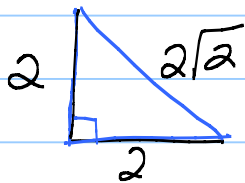
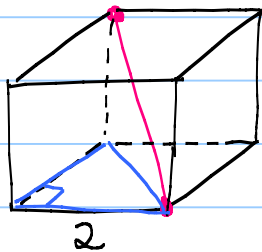
HOMEWORK:

9.8: 413/1-6, 14, 15

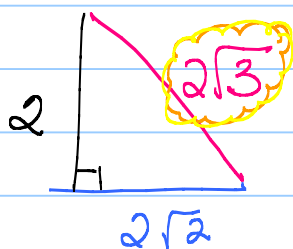
Chapter review (p 429) 24, 27, 29, 30

9.8

15

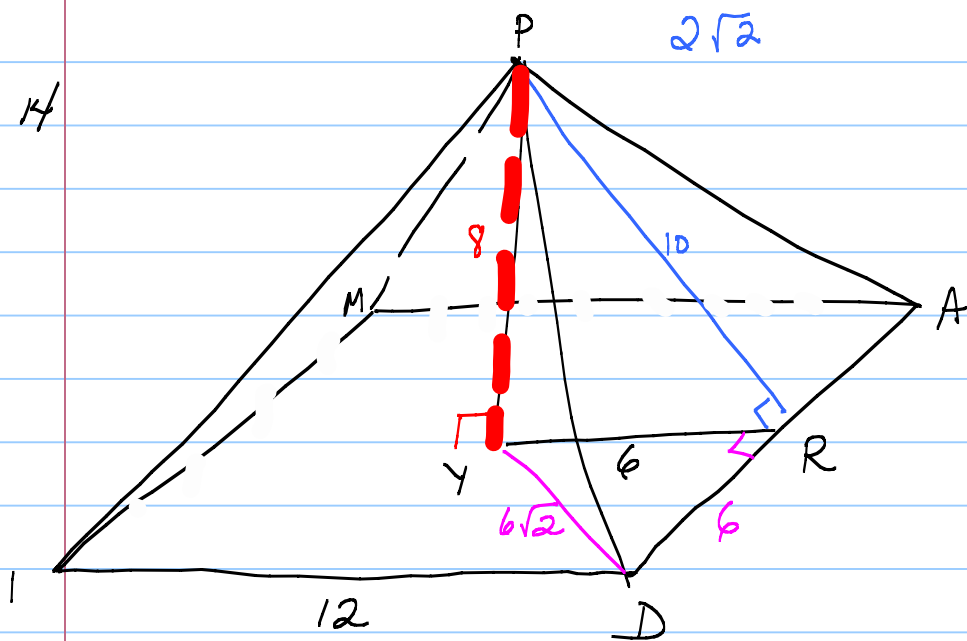


45 45 90
x x x\sqrt{2}

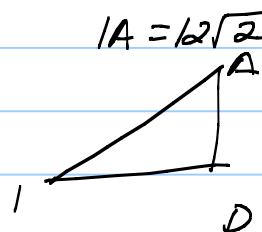


$2(1, \sqrt{2}, \sqrt{3})$
1+2

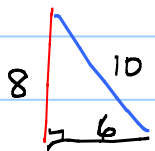
14



45 45 90
x x x\sqrt{2}
10\sqrt{2}



- a) $ID = 12$ b) $PY = 8$ c) $RD = 6$ d) $PD =$

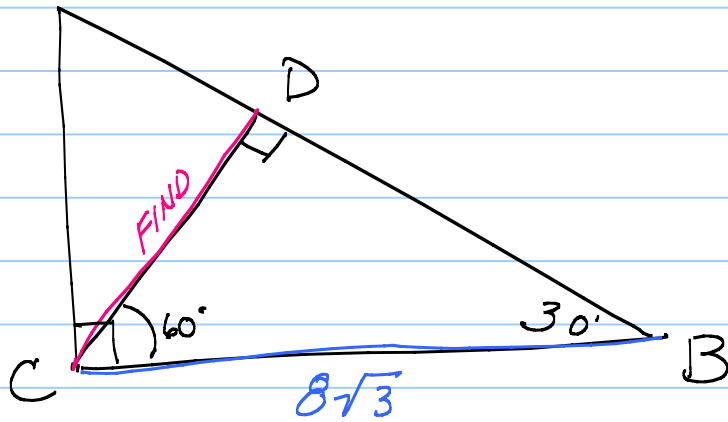


$(6 - 10) \Rightarrow 2(3, 4, 5)$

- 25: 1) POP QUIZ
 2) Q+A 9.7 + REV
 3) 9.8 + REV

$\frac{9.7}{8}$
 9
 12

9.7:
 8.



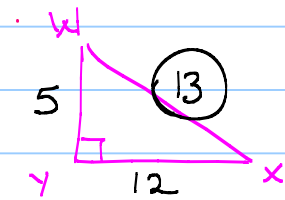
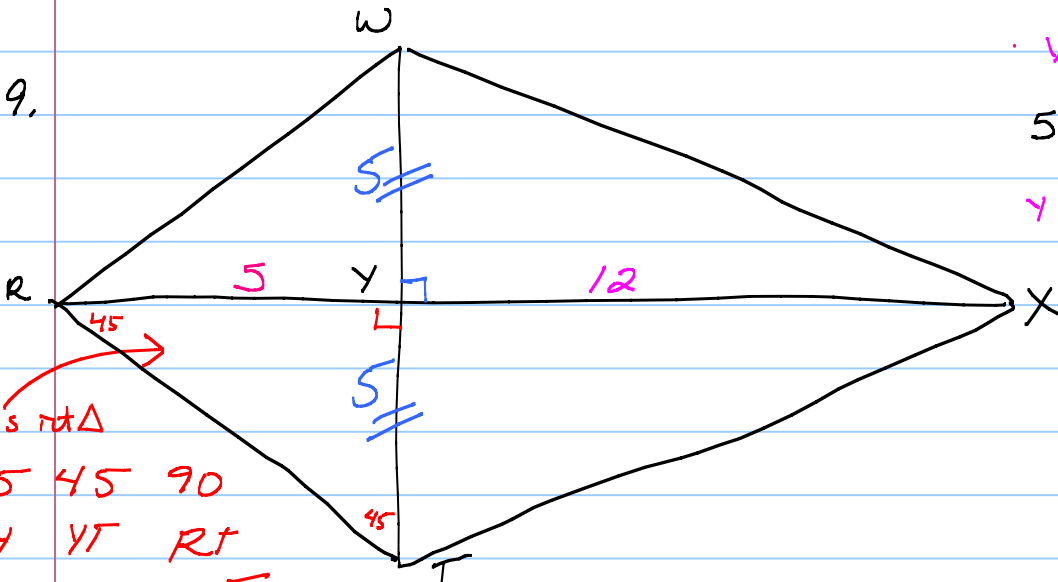
30	60	90
CD	BD	CB
x	$x\sqrt{3}$	$2x$
$4\sqrt{3}$		$8\sqrt{3}$

} EQUATION

IF $\frac{2x}{2} = \frac{8\sqrt{3}}{2}$

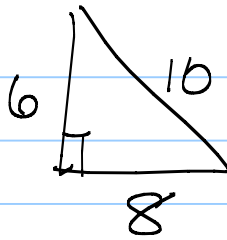
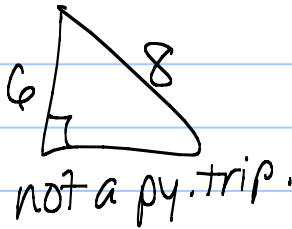
THEN $x = 4\sqrt{3}$

BD : $x\sqrt{3}$
 $(4\sqrt{3})\sqrt{3} = 4 \cdot 3 = 12$



ISOS RTA
 45 45 90
 RY YT RT
 X X $X\sqrt{2}$
 5 $5\sqrt{2}$

Q:

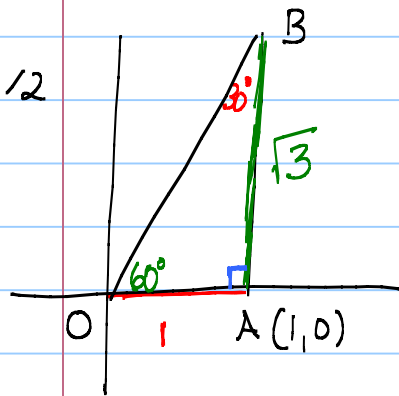


Two Δ s
most often on
stand. tests.

$$2(3\sqrt{7}4)$$

$$9+x^2=16$$

$$x^2=7$$



30	60	90
x	$x\sqrt{3}$	2x
OA	BA	OB
1	$\sqrt{3}$	2

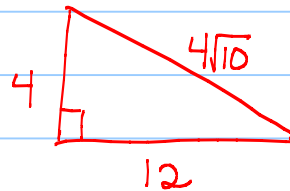
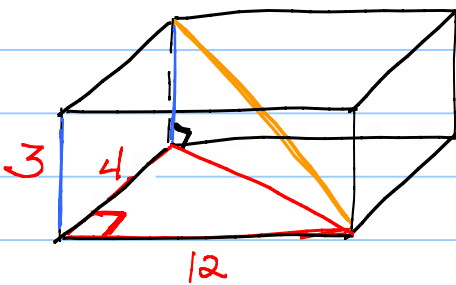
a) $B: (1, \sqrt{3})$

b) slope $\overline{OB} = \frac{\Delta y}{\Delta x}$ or $\frac{\sqrt{3}}{1}$ or $\sqrt{3}$

c) $\tan 60^\circ = \frac{AB}{OA}$ or $\frac{\sqrt{3}}{1}$ or $\sqrt{3}$

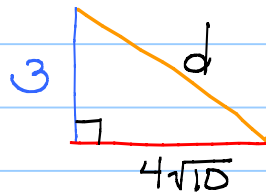
Pro 13-15 (9.8 material)

13.



$$4(1, 3, \sqrt{10})$$

$$1+9$$



$$3^2 + (4\sqrt{10})^2 = d^2$$

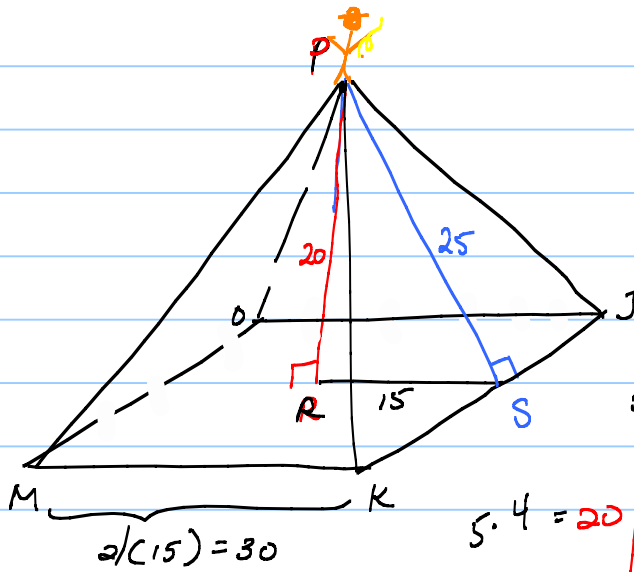
$$9 + 160 =$$

$$169 = d^2$$

$$13 = d$$

14.

FIRE
DRILL

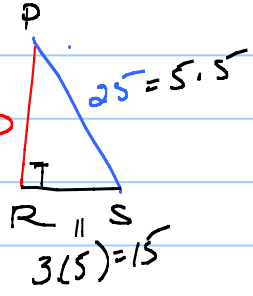


slide down side \Rightarrow slant height

altitude \Rightarrow height of pyramid

$$2(15) = 30$$

$$5 \cdot 4 = 20$$



$$\text{Peri of JKMO} = 4(30) = 120$$

15.