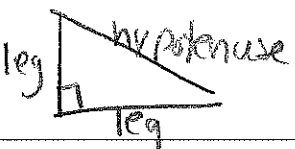
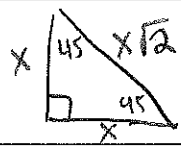
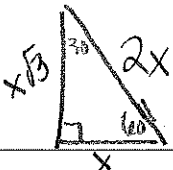
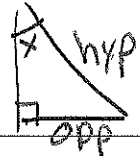
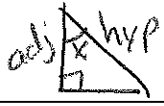
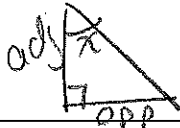
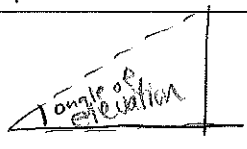
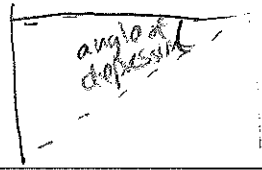


Geometry Unit 7 Vocabulary

Word	Definition	Diagram/other information
Pythagorean theorem	$a^2 + b^2 = c^2$ for right Δ 's only <small>L leg L leg hypotenuse</small>	
Converse of the Pythagorean theorem	If $a^2 + b^2 = c^2$ then the Δ is a right Δ .	$a^2 + b^2 = c^2 \rightarrow$ right $a^2 + b^2 > c^2 \rightarrow$ obtuse $a^2 + b^2 < c^2 \rightarrow$ acute
45-45-90 triangle		leg = leg hyp = $x\sqrt{2}$
30-60-90 triangle		Short leg = $x =$ hyp Short leg $\cdot \sqrt{3} =$ long leg
sine	$\sin x = \frac{\text{opposite}}{\text{hypotenuse}}$	
Cosine	$\cos x = \frac{\text{adjacent}}{\text{hypotenuse}}$	
tangent	$\tan x = \frac{\text{opposite}}{\text{adjacent}}$	
Inverse trig ratio	Used to isolate x , when x is the \angle . The inverse or opposite of sin, cos, or tan.	$\sin^{-1}x$ $\cos^{-1}x$ $\tan^{-1}x$
Angle of elevation	angle formed by horizontal + line of site looking up	
Angle of depression	angle formed by horizontal + line of site looking down	

angle of elevation = angle of depression

