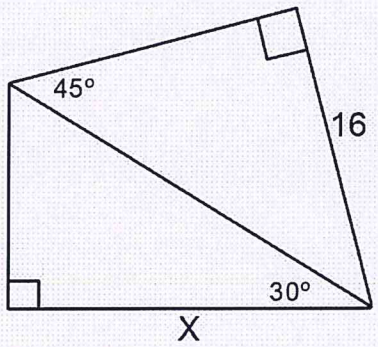
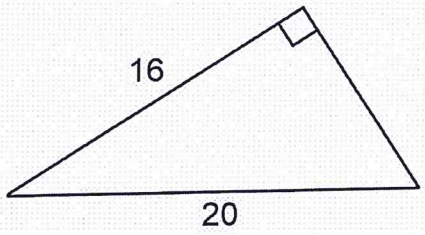
Bellwork Geo Tuesday, March 24, 2020

1. Find the EXACT value of x.

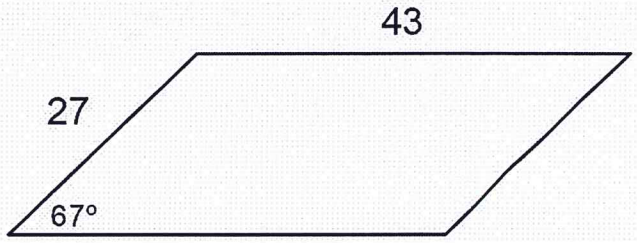


Find the area of each triangle and parallelogram. Round to the nearest hundredth.

2.



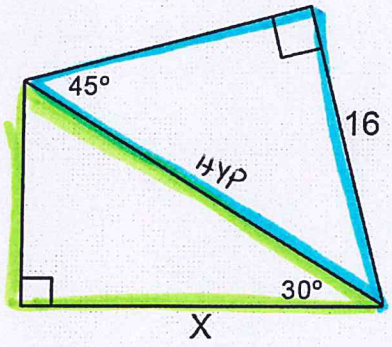
3.



Bellwork Geo Tuesday, March 24, 2020

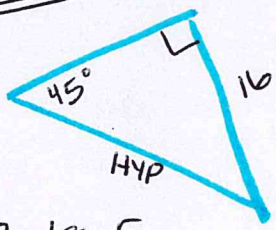
ANSWERS

1. Find the EXACT value of x.



1ST

45-45-90 Δ

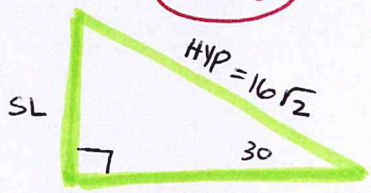


- HYP = Leg · $\sqrt{2}$

  HYP = $16\sqrt{2}$

2ND

30-60-90 Δ



- SL = HYP ÷ 2

  = $16\sqrt{2} \div 2$

  SL = $8\sqrt{2}$

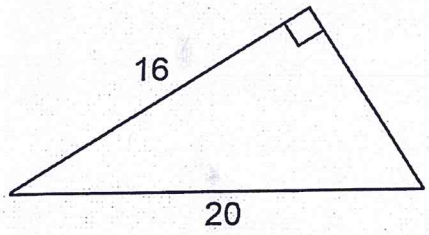
- LL = SL · $\sqrt{3}$

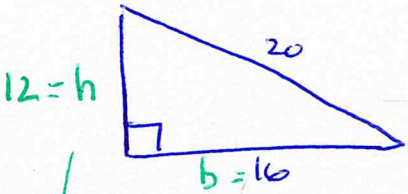
  X = LL = $8\sqrt{2} \cdot \sqrt{3}$

  X = $8\sqrt{6}$

Find the area of each triangle and parallelogram. Round to the nearest hundredth.

2.





$20^2 = h^2 + 16^2$

$h^2 = 20^2 - 16^2$

$h = \sqrt{20^2 - 16^2}$

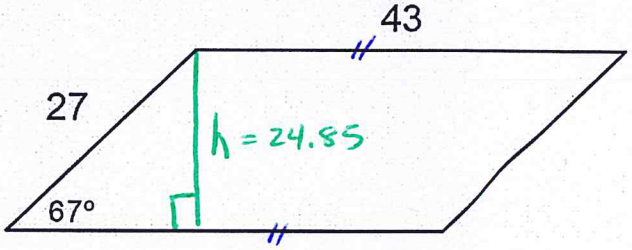
h = 12

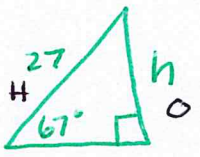
$A = \frac{1}{2}bh$

$A = \frac{1}{2}(16)(12)$

A = 96

3.





SOHCAHTOA

$27 \cdot \sin 67° = \frac{h}{27} \cdot 27$

h = 24.85

A = b·h

= (43)(24.85)

A = 1068.55