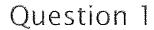
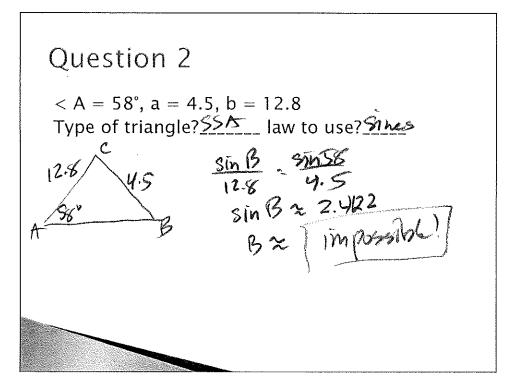
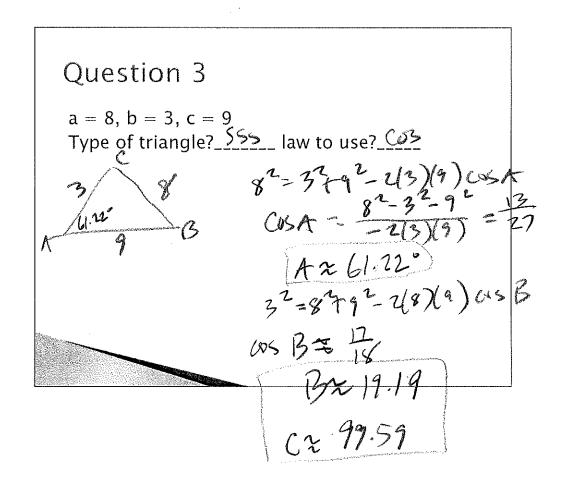
# Law of Sines and Cosines Practice



 $< C = 105^{\circ}$ ,  $< B = 40^{\circ}$ , c = 20Type of triangle? ANS law to use? Sim

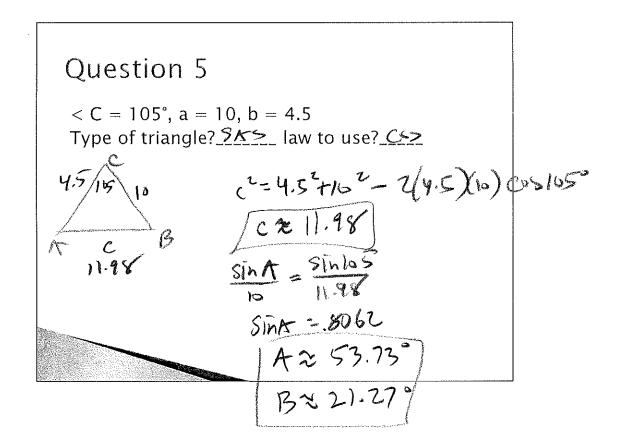




Question 4

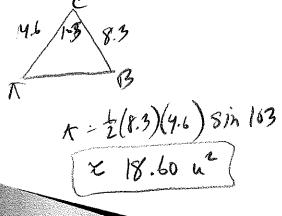
$$A = 58^{\circ}$$
,  $a = 11.5$ ,  $b = 12.8$ 

Type of triangle?  $500$  law to use?  $500$ 
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## Question 6

Find the area of the triangle if a = 8.3, b = 4.6 and the measure of angle C is  $103^{\circ}$ .

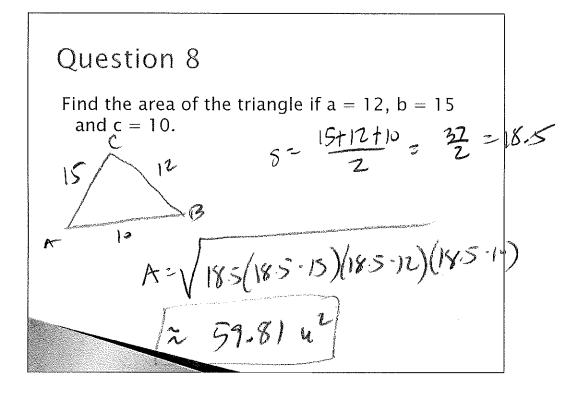


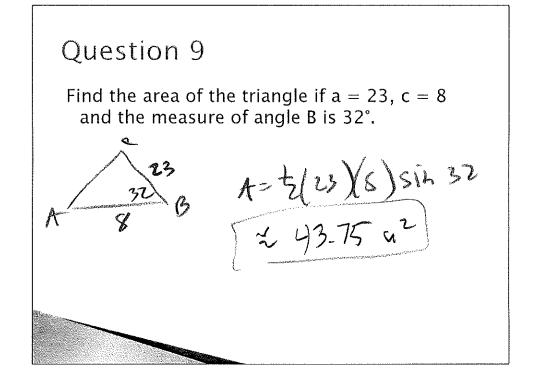
## Question 7

Let ABCD be a parallelogram. If AB = 7 and BC = 9 and  $< B = 38^{\circ}$ , find the length of the diagonal of the parallelogram.

$$\times = \sqrt{72492 - 2(1)(1)} \cos 38 \approx 5.59$$

Then find the area of the parallelogram.





Question 10

< A = 135°, b = 4, c = 9

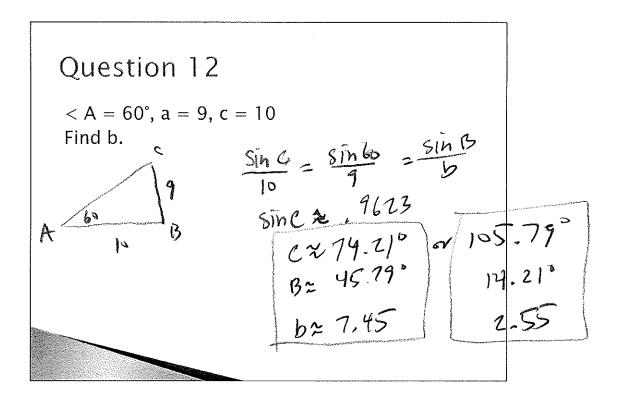
Find the measure of angle C

$$4 \frac{12.14}{35}$$
 $5 \frac{12.16}{9}$ 

Sinc 2 5233

 $5 \frac{31.55}{9}$ 

# Question 11 Find the area of the triangle if a = 12, b = 12 and c = 12. $5 = \frac{12 + 12 + 12}{2} = 18$ $4 = \sqrt{18(18 - 12)^3} = 62.35$ $= \sqrt{18 \cdot 116}$ $= 3\sqrt{2 \cdot 216}$ $= 18\sqrt{12} = 2\sqrt{13} \cdot 2$



### Question 13

From a certain distance, the angle of elevation to the top of a building is 17°. At a point 50m closer to the building, the angle of elevation is 31°. Approximate the height of the building to the nearest hundredth using the Law of Sines.

