Kuta Software - Infinite Algebra 2 Name_____

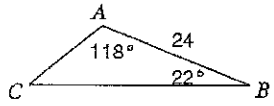
The Law of Sines

Date_____ Period____

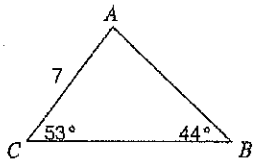
Find the area of # 6, 7, 10

Find each measurement indicated. Round your answers to the nearest tenth.

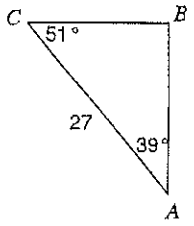
1) Find AC



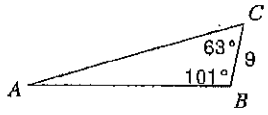
2) Find AB



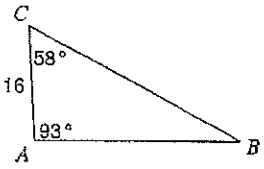
3) Find BC



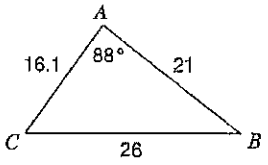
4) Find AB



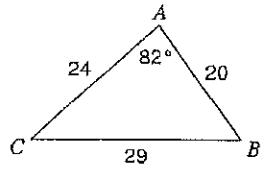
5) Find BC



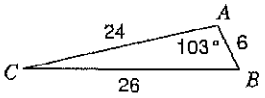
6) Find THE AREA



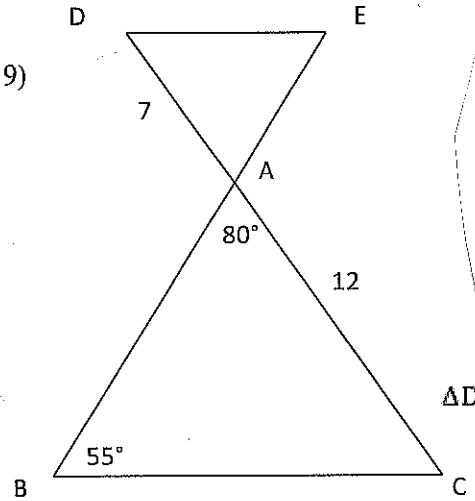
7) Find THE AREA



8) Find $m\angle C$

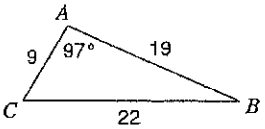


9)

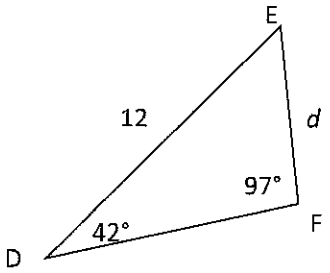


$\Delta DEA \sim \Delta CBA$. Find DE to the nearest whole number.

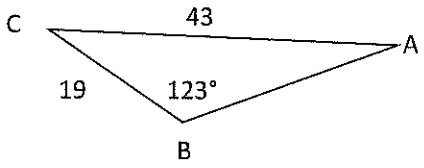
10) Find THE AREA



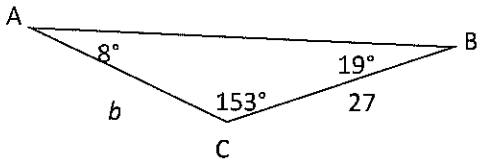
11. For ΔDEF find d to the nearest hundredth.



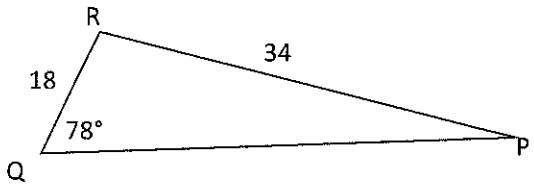
12. For ΔABC find $m\angle A$ to the nearest whole degree.



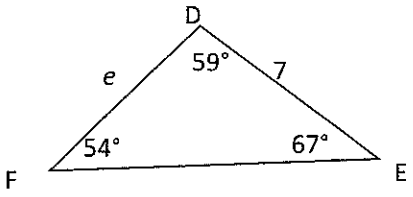
13. For ΔABC find b to the nearest hundredth.



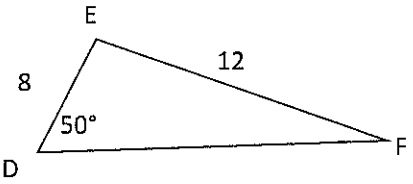
14. For ΔPQR find $m\angle P$ to the nearest whole degree.



15. For ΔDEF find e to the nearest hundredth.



16. For ΔDEF find $m\angle F$ to the nearest whole degree.



17. For ΔABC, $a = 18$, $b = 6$, and $m\angle A = 28°$. Find $m\angle B$ to the nearest whole degree.

18. For ΔDEF, $d = 54$, $f = 27$, $m\angle D = 20°$. Find $m\angle F$ to the nearest whole degree.

19. For ΔDEF, $e = 34$, $m\angle D = 36°$, $m\angle E = 72°$, and $m\angle F = 72°$. Find e to the nearest whole degree.

20. For ΔDEF, $d = 24$, $m\angle D = 37°$, and $m\angle E = 49°$. Find e to the nearest whole degree.

21. For ΔABC, $a = 42$, $c = 72$, and $m\angle C = 41°$. Find $m\angle A$ to the nearest whole degree.

22. For ΔXYZ, $x = 17$, $m\angle X = 24°$, $m\angle Y = 44°$, and $m\angle Z = 112°$. Find z to the nearest whole degree.