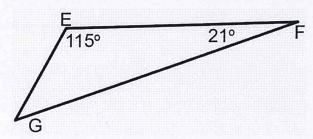
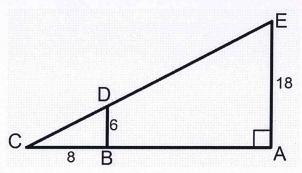
## Bellwork Alg 2 Tuesday, March 12, 2019

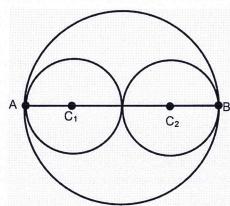
1. List the sides of  $\triangle EFG$  in order from shortest to longest.



2. In the figure below,  $\overline{BD}$  is parallel to a  $\overline{AE}$ . What is the length of  $\overline{CE}$ ?



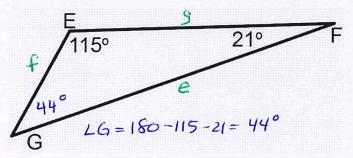
3. In the figure below, AB is a diameter of the large circle. The centers  $C_1$  and  $C_2$  of the smaller circles are on AB. The two small circles are congruent and tangent to each other and to the larger circle. The circumference of circle  $C_1$  is  $8\pi$ . What is the area of the large circle?



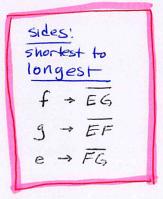
## Bellwork Alg 2 Tuesday, March 12, 2019

AnswERS

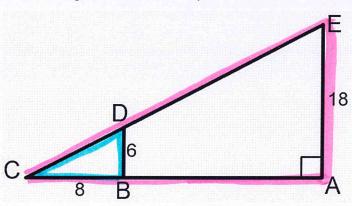
1. List the sides of  $\triangle EFG$  in order from shortest to longest.



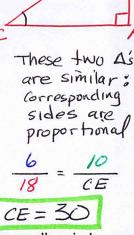
Angles: smallest to largest LF LG LE



2. In the figure below,  $\overline{BD}$  is parallel to a  $\overline{AE}$ . What is the length of  $\overline{CE}$ ?



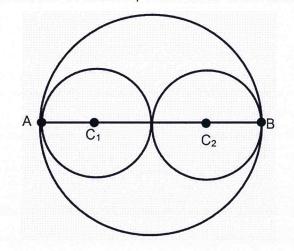
Use pythagoraun Theorem to find CD:  $8^2+6^2=(CD)^2$   $64+36=(CD)^2$   $100=(CD)^2$  $100=(CD)^2$ 



E

18

3. In the figure below, AB is a diameter of the large circle. The centers  $C_1$  and  $C_2$  of the smaller circles are on AB. The two small circles are congruent and tangent to each other and to the larger circle. The circumference of circle  $C_1$  is  $8\pi$ . What is the area of the large circle?



\* Circum ference = Td

8T = Td

diameter of C<sub>1</sub> = 8

\* diameter of C<sub>1</sub> = radius
of larger
circle

\* Area of large circle = Trl

= T(8)<sup>2</sup>

= 64T