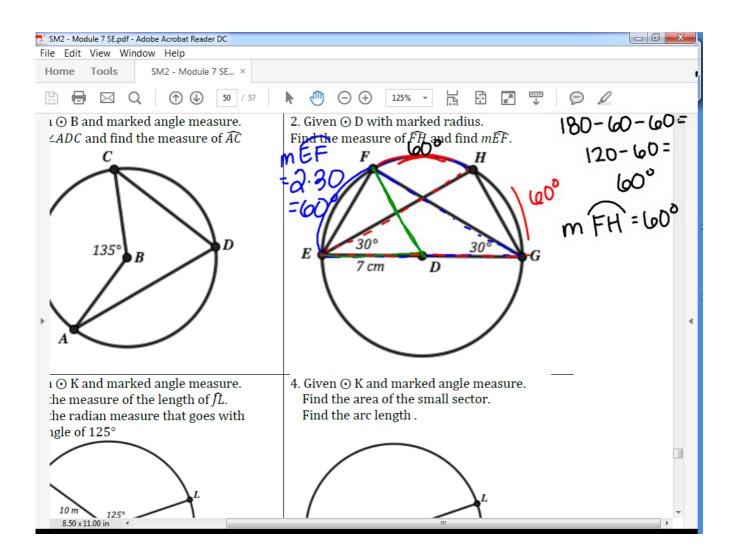
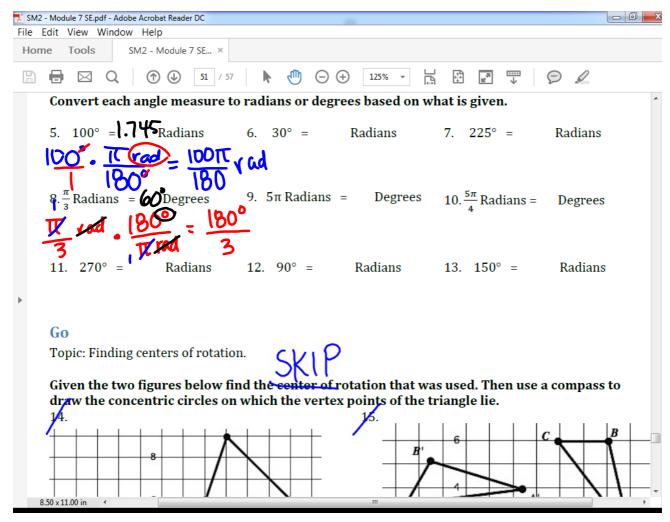
Questions on 7.9 HW?





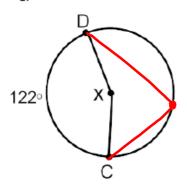


SECONDARY MATH II Module 7 Test Review: Circles

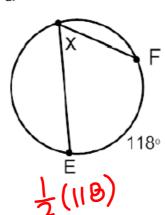
<u>Directions</u>: Show ALL work. Round any decimals to one decimal place, unless otherwise stated.

For 1-3: Determine what x equals in each circle below.

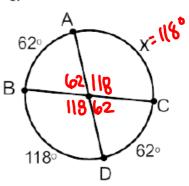
1.



2.

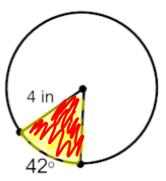


3.

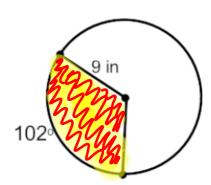


For 4-5: Find the area of the shaded sector below using the area of a sector formula, $A=\frac{\theta}{360}(\pi r^2)$.

4.



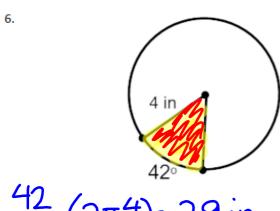
5.

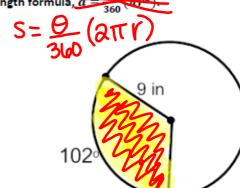


$$\frac{42}{360}(\pi 4^2) = 5.9 \text{ m}$$

$$\frac{102}{360}(\pi^{92})=72.1$$

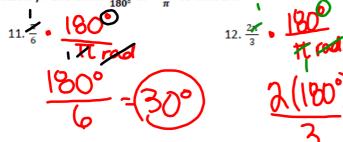
For 6-7: Find the arc length of the shaded sector below using the arc length formula, $a = \frac{\theta}{360}$

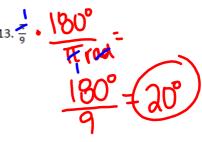




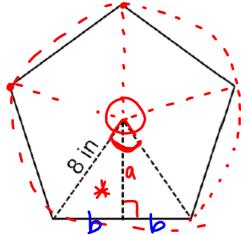
For 8-10: Convert each angle measure from degrees to radians. Round your answer to three decimal places if necessary. Use either $\frac{\pi}{180^{\circ}}$ or $\frac{180^{\circ}}{\pi}$ to convert.

For 11-13: Convert each angle measure from radians to degrees. Round your answer to one decimal place if necessary. Use either $\frac{\pi}{180^{\circ}}$ or $\frac{180^{\circ}}{\pi}$ to convert.





For 14-15: Use the regular pentagon below to answer the questions. Formulas:



14. What is the measure of one of the 5 central angles of this regular pentagon?

Area of a regular polygon:

$$A = \frac{1}{2} Pa, where$$

P = perimeter of polygon and

$$a = apothem$$

$$in\theta = \frac{opposite}{hypotenuse}$$

$$tan\theta = \frac{opposite}{adjacent}$$

$$Pythagorean\ Theorem: a^2 + b^2 = c^2$$

15. What is the measure of the apothem?



17. What is the Perimeter of this regular pentagon?

$$P = 5(9.4)$$

 $P = 47 \text{ in}$

16. What is the measure of one of the 5 side lengths of this regular pentagon?

hyp
$$\frac{1}{30}$$
 ady: $8-\sin 30 = \frac{b}{8}$ $\frac{1}{8}$ $\frac{1}{$

18. What is the area of this regular pentagon?

$$A = \frac{1}{2} \cdot P \cdot a$$

$$A = \frac{1}{2}.47(6.5)$$

$$A = 152.8 \text{ in}^2$$

Homework Study for Module 7 Test