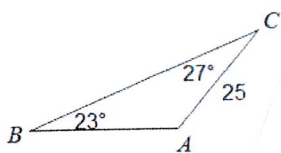


Name _____

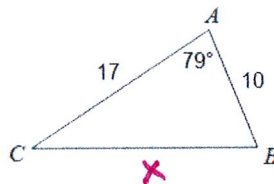
Sem 2 TH #8

1. Use the law of sines to solve for x:



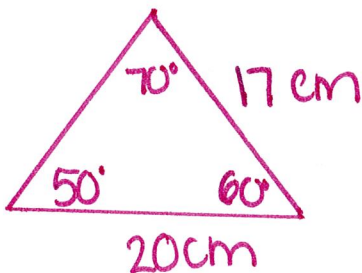
$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

2. Use the law of cosines to solve for x:



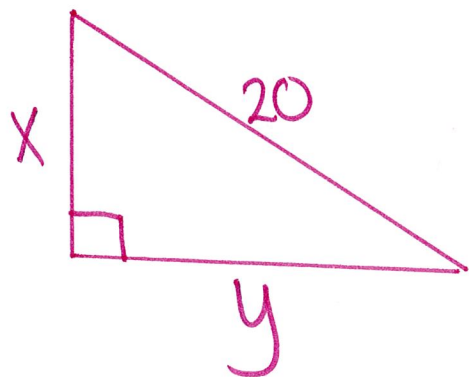
$$x^2 = b^2 + c^2 - 2bc(\cos A)$$

3. Find the area of the triangle (Area = $\frac{1}{2}(b)(c)(\sin A)$)

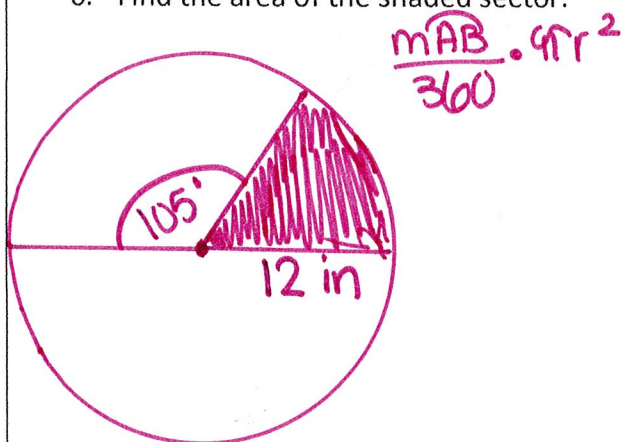


4. The angle of elevation to the top of the bleachers is 35° . Hailey is standing 10 feet from the base of the bleachers, and wants to toss a ball to Nathan. How far must the ball travel? (Use SohCahToa)

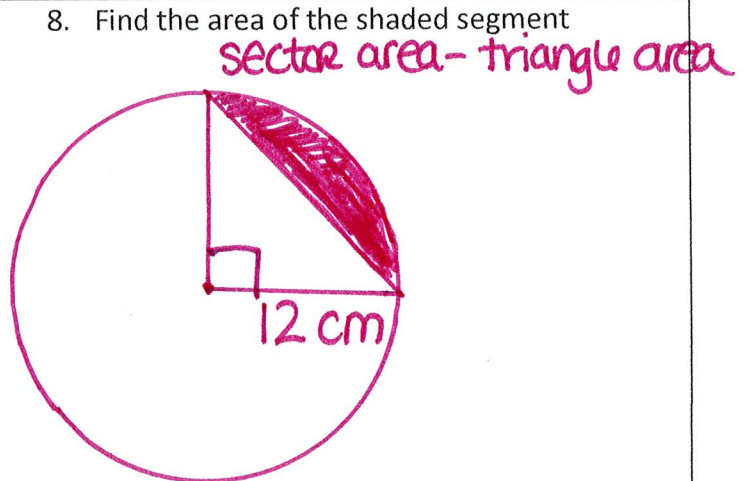
5. $x =$ _____ $y =$ _____



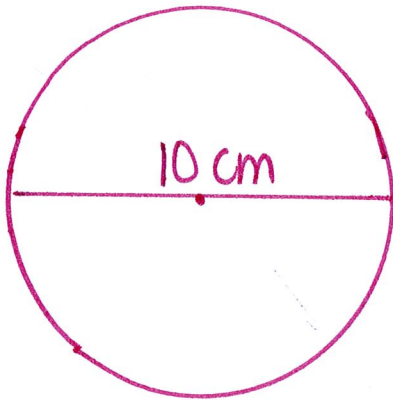
6. Find the area of the shaded sector:



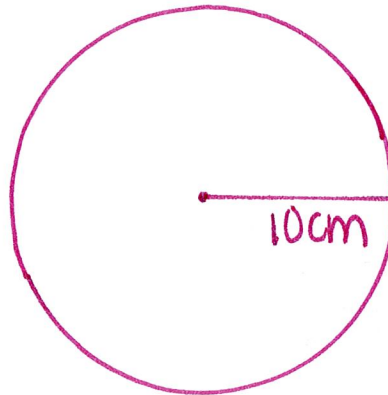
7. Which has a greater area: $A = \frac{1}{2} \cdot a \cdot p$
- A. A regular decagon with side length 5 cm and apothem 8 cm
 - B. A regular octagon with side length 8 cm and apothem 5 cm



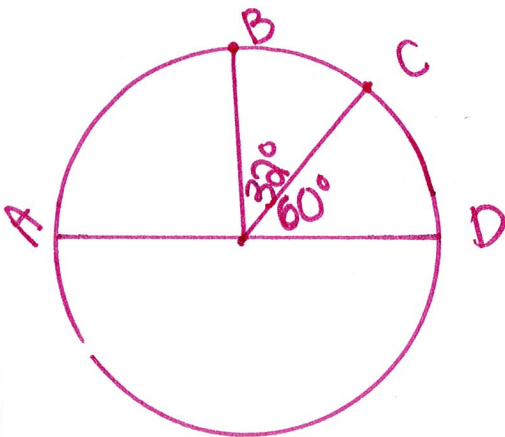
9. Find the area of the circle in terms of π



10. Find the circumference of the circle in terms of π



11. Find the measure of arc AB



12. Find the length of arc AB.

