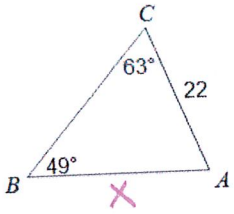
Name _____ Sem 2 TH #7

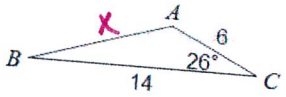
1. Use the law of sines to solve for x:

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

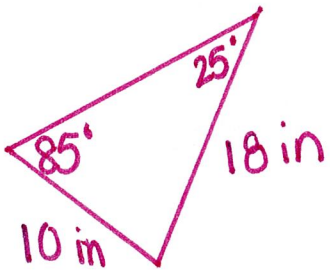


2. Use the law of cosines to solve for x:

$x^2 = a^2 + b^2 - 2ab(\cos C)$

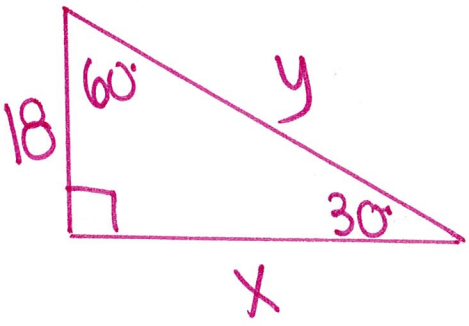


3. Find the area of the triangle (Area = ½(b)(c)(sinA))

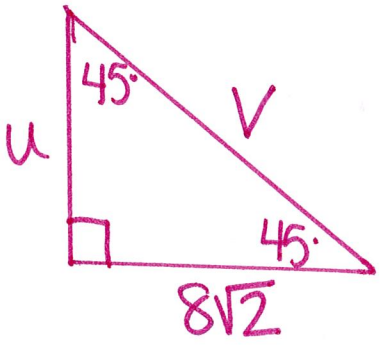


4. The angle of elevation to the top of a pole is 15°. If Joe is standing 12 feet away from the pole, how tall is the pole? (Use SohCahToa)

5. x = _____ y = _____



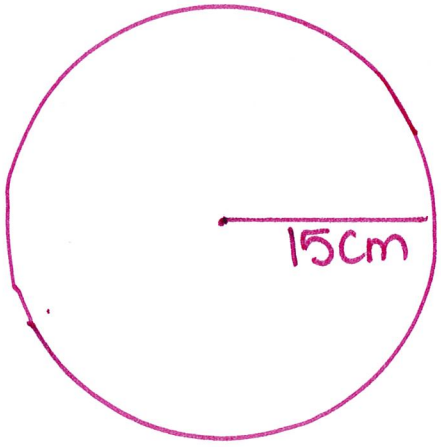
6. u = _____ v = _____



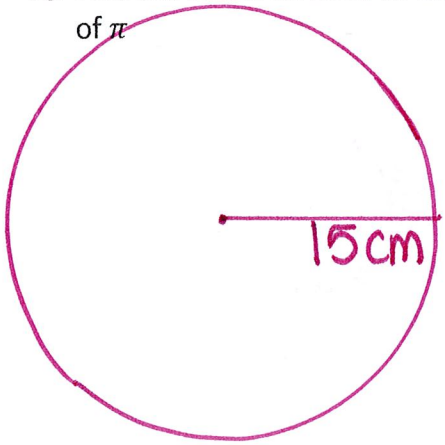
7. Find the area of a regular hexagon with a side length of 18 cm and an apothem 20 cm. (A = ½ ap)

8. Use your notes to write the definition of a circle:

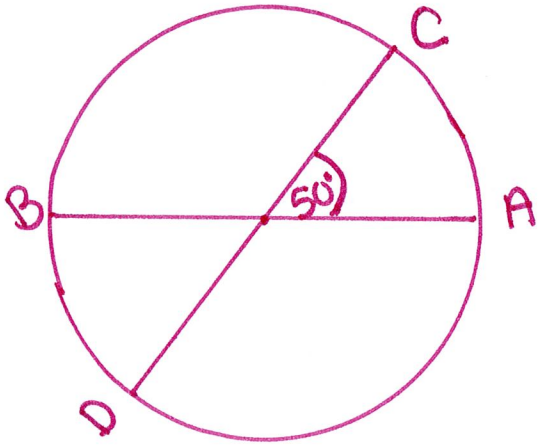
9. Find the area of the circle in terms of π



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



11. Find the measure of arc ABC



12. Find the length of arc AB.