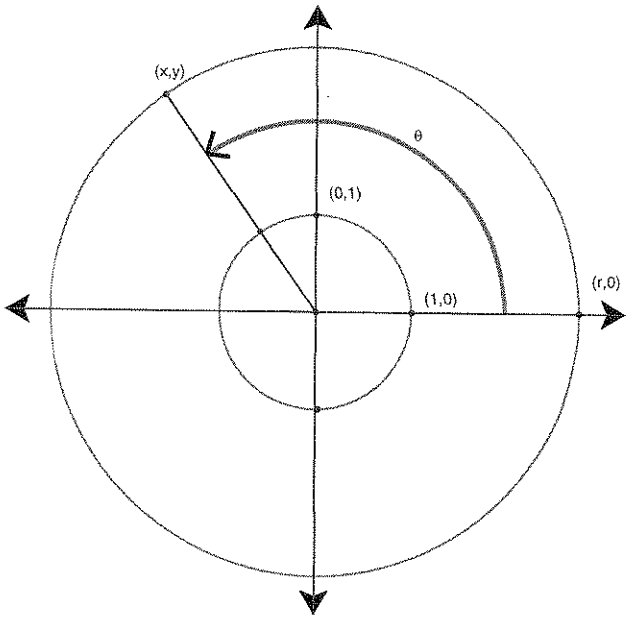
Review on The Unit Circle and Right Triangle Trig Name_____

1. Complete the following statement:



r = radius of a circle with a center at (0,0)

θ = degree of rotation, centered at (0,0), from the positive x axis to the radius

Any point (x,y) can be thought of as

(_____)

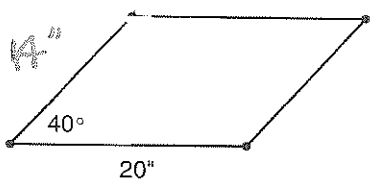
2. In ΔBAC, ∠C is a right angle and sin ∠B = $\frac{15}{17}$

a. Find the cos ∠B

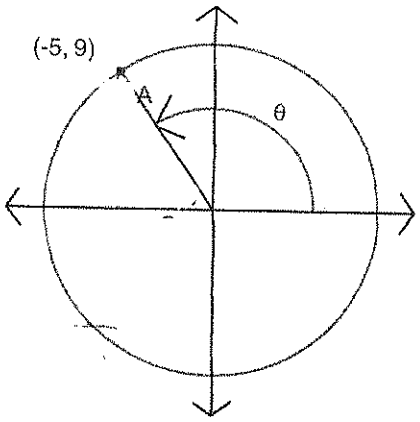
b. Find the tan ∠A

3. The equation of a line is y = $\frac{-8}{11}$x + 4 , What is the angle between the line and the x – axis?

4. ABCD is a parallelogram. What is the area of parallelogram ABCD?



5. Find the values of sin θ, cos θ and tan θ



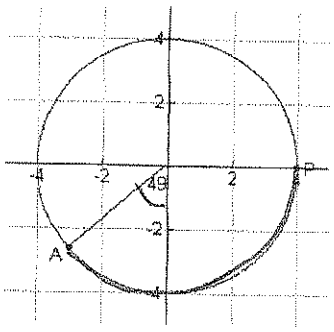
sin θ =

cos θ =

tan θ =

Find the degrees in θ (You should be able to check your answers above to see that all three are reasonable!)

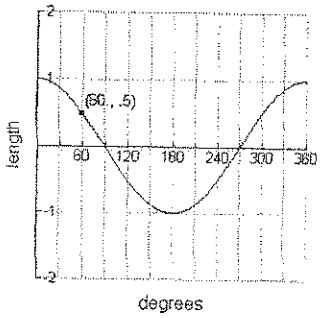
6. Find the area of a regular 30 gon with sides of length 14 cm.

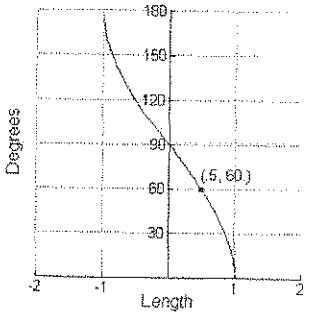


7. a. Find the length of arc AP

b. Find the area of the sector bounded by arc AP

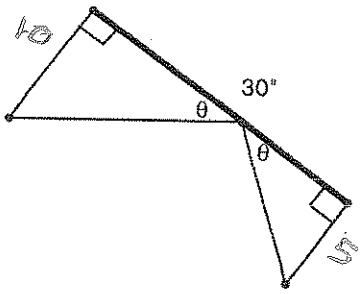
8. Give the domain and range of these functions



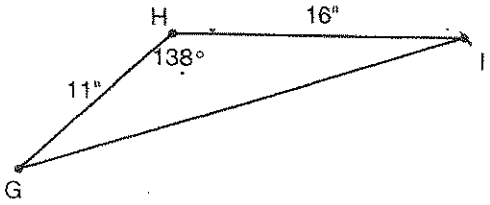


9. A rhombus has diagonals of lengths 13 cm and 21cm. find the four angle measures of the rhombus.

10. Find the measure of theta θ. Be sure to justify your solution.



11. Find the area



12. $\Delta RTS \sim \Delta MUN$ and if the cos $\angle T = .6$ and the cos $\angle N = .8$, what is the cos $\angle U$? Explain your reasoning.

13. Why is this statement impossible? **The sin θ = 2** Explain your reasoning.