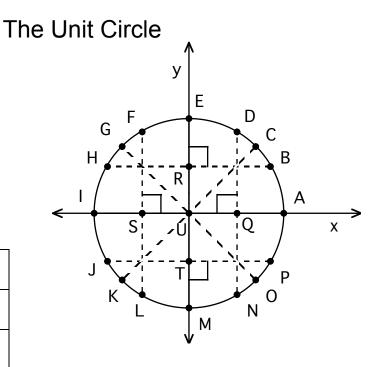
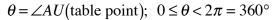
			_	
point	x	У		
Q	1⁄2	0		
R	0	1⁄2		
S	-1/2	0		
Т	0	-1⁄2		
point	x	У	θ°	θ rad.
А	1	0	0°	0
В				
С				
D				
Е	0	1		
F				
G				
н				
I	-1	0		
J				
К				
L				
М	0	-1		
N				
0				
Р				





Honors Precalculus Classwork

Answer the questions below in sequence. Complete the table ONLY as you get clues from your answers. Work in small groups (1-4), checking each other's work; each submits.

Name: ______

Period: _____ Date: _____

- 1. Which points on circle *U* have the same *x*-coordinate as point *Q*? As point *S*?
- 2. Which points on circle *U* have the same *y*-coordinate as point *R*? As point *T*?
- 3. UQ ____QA. [<,=,>]
- 4. What is the relationship of \overline{DQ} to \overline{UA} ?
- 5. What kind of Δ is ΔUDA ?
- 6. UD ____ DA. [< , = , >]
- 7. \overline{UD} and \overline{UA} are _____ of circle U.
- 8. UD ____ DA ____ UA. [< , = , >]

The Unit Circle

- 9. What kind of Δ is ΔUDA ?
- 10. What is the degree measure of $\angle AUD$?
- 11. What are the lengths of segments UD, UQ, and QD?
- 12. What are the (x, y) coordinates of point *D*?
- 13. What's the *x*-coordinate of *N* and the *y*-coordinate of *F*?
- 14. *UR* _____ *RE*. [< , = , >]
- 15. What is the relationship of \overline{BR} to \overline{UE} ?
- 16. What kind of Δ is ΔUBE ?
- 17. *UB* _____ *BE*. [< , = , >]
- 18. \overline{UB} and \overline{UE} are _____ of circle U.
- 19. *UB* _____ *BE* _____ *UE*. [< , = , >]
- 20. What kind of Δ is ΔUBE ?
- 21. What are the degree measures of $\angle BUE$ and $\angle AUB$?
- 22. What are the lengths of segments UB, UR, and RB?
- 23. What are the (x, y) coordinates of point *B*?
- 24. What are the *x*-coordinate of *P* and the *y*-coordinate of *H*?
- 25. If diagonal *CK* is drawn through the intersection of segments *BR* and *DQ*, what's the degree measure of $\angle AUC$?
- 26. What are the (x, y) coordinates of point *C*?
- 27. Reflect points in the drawing to complete the table.