Name: _____   No. _____   Per: _____   Date: _____

Serafino · Precalculus S1   M T W R F

2A	**Trigonometry in the Coordinate Plane**
	Notes & Practice Packet

1. Fill in the chart below:

	WITHOUT A CALCULATOR				WITH A CALCULATOR			
Quadrant	III			IV			II	
$0° \le \theta < 360°$			210°					253.7°
Any coterminal		−240°				26,564°		
$\hat{\theta}$	45°				26°			
sin Ө				− 1/2	−0.4384		.9744	
cos Ө					0.8988			

5. <u>NAME THAT QUADRANT</u> … or Quadrants… or Quadrantal Angles… or Special Angles

A. Sine is positive

B. Secant is negative

C. Cotangent is positive

D. Cosecant is negative

E. Sine is positive & Secant is negative

F. Cosecant is negative & Tangent is negative

G. Cosine is positive & Sine is negative

H. Tangent is positive & Secant is positive

I. Cotangent is undefined

J. Secant is undefined

K. Cosine is −1

L. Tangent is 0

M. Sine is 0, Cosine is 1

N. Cosecant is undefind & Secant is −1

O. Cosecant is 1.

P. Secant is undefined & Cosecant is Negative

Q. Tangent is −1

R. Cosine is − √3 /2

S. Sine is ½

For the given information, find the exact (no calc) AND approximate (calc) six trig ratios of Θ.   Then find $0° ≤ Θ < 360°$
If two possibilities exist, give both.

2. A point on the terminal side of $θ$ is $(−1, 3)$

3. The cot $θ = −1/2$ in QIV

4. The sec $θ = 5/3$

5. The sin $Θ = −5/3$