

Name Schlansky
Mr. Schlansky

	30	45	60
SIN	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
COS	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
TAN	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

Date _____
Algebra II

- 1) Sketch angle on grid
- 2) Find reference angle

Quadrant
Sign
Function
Reference Angle

- 3) Evaluate using the table

Evaluating Special Angles

1. $\sin(30)$
 $\frac{1}{2}$

2. $\cos(45)$
 $\frac{\sqrt{2}}{2}$

3. $\tan(60)$
 $\sqrt{3}$

4. $\cos(150)$

Q II
S -
F COS
R 30°
T 30 C $-\cos 30$
 $-\frac{\sqrt{3}}{2}$

5. $\sin(120)$

Q II
S +
F SIN
R 60
T 20 C $+\sin 60$
 $\frac{\sqrt{3}}{2}$

6. $\tan(135)$

Q II
S -
F TAN
R 45
T 20 C $-\tan 45$
 -1

7. $\tan(210)$

Q III
S -
F TAN
R 30
T 20 C $+\tan 30$
 $\frac{\sqrt{3}}{3}$

8. $\sin(225)$

Q III
S -
F SIN
R 45
T 20 C $-\sin 45$
 $-\frac{\sqrt{2}}{2}$

9. $\cos(240)$

Q III
S -
F COS
R 60
T 20 C $-\cos 60$
 $-\frac{1}{2}$

10. $\cos(330)$

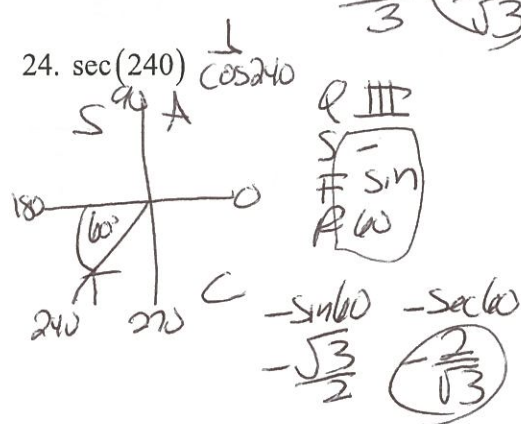
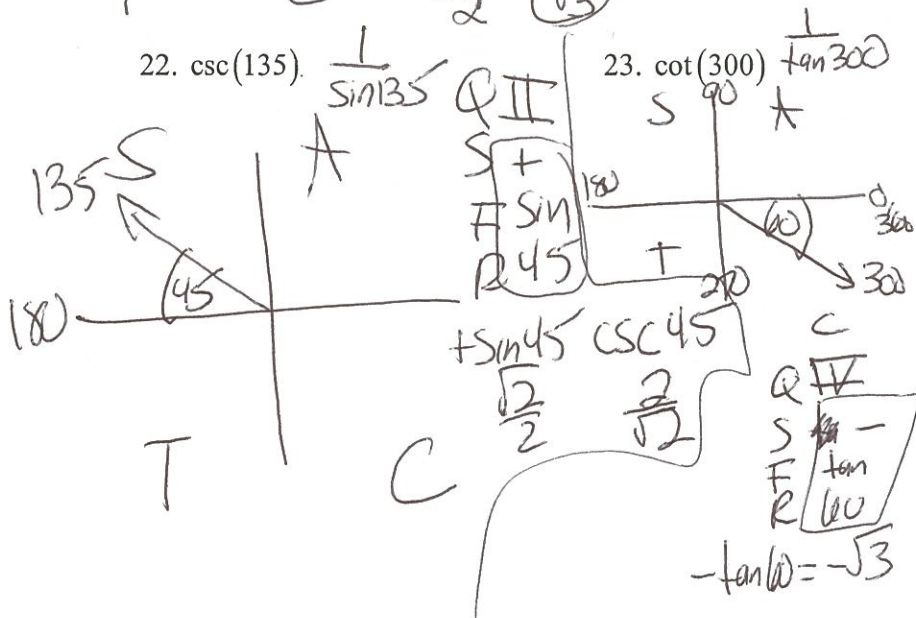
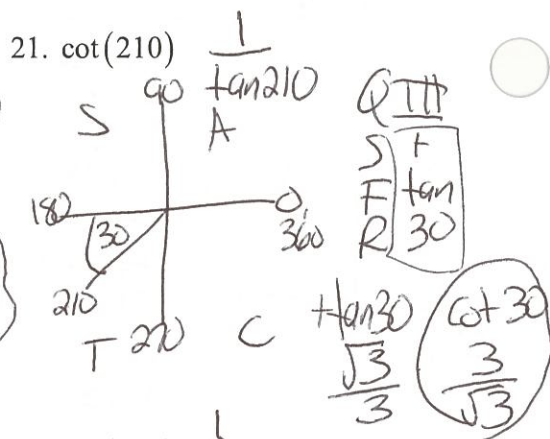
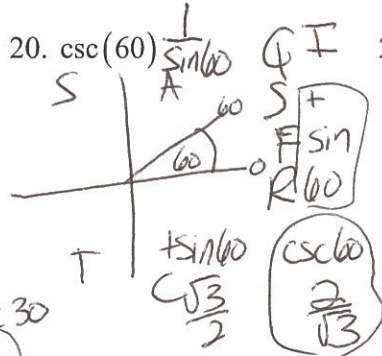
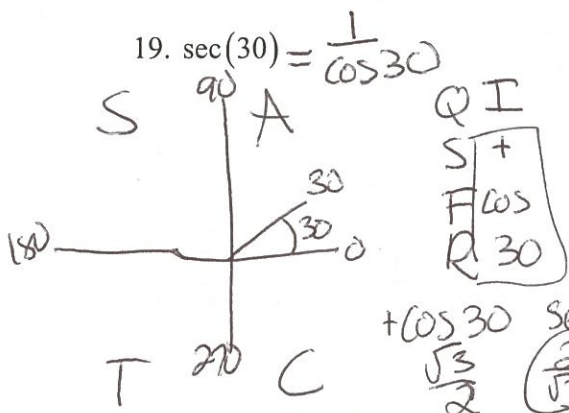
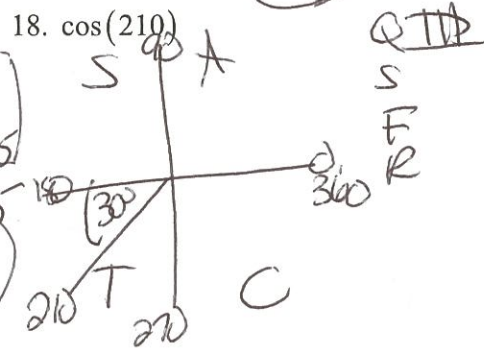
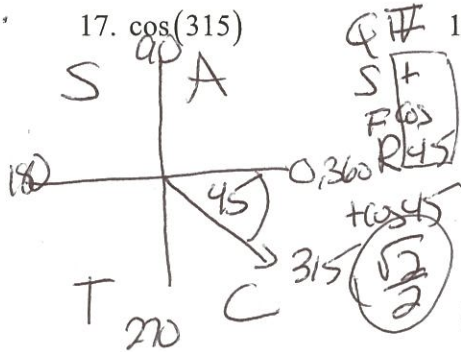
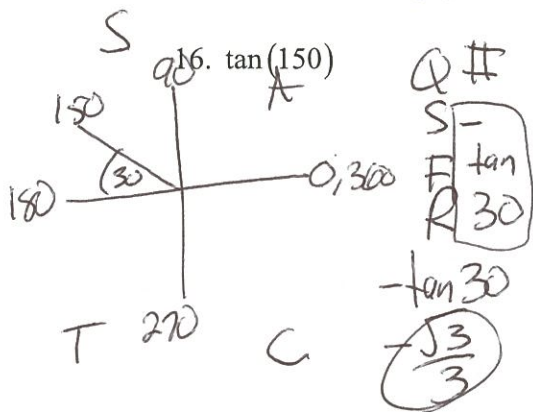
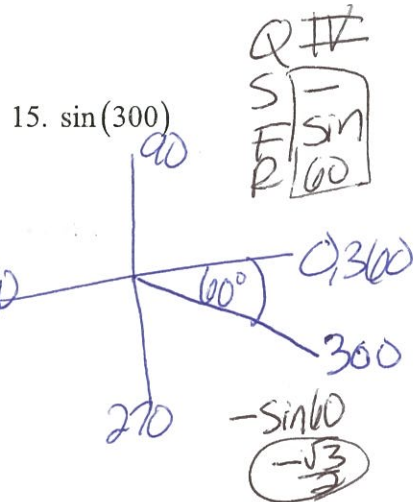
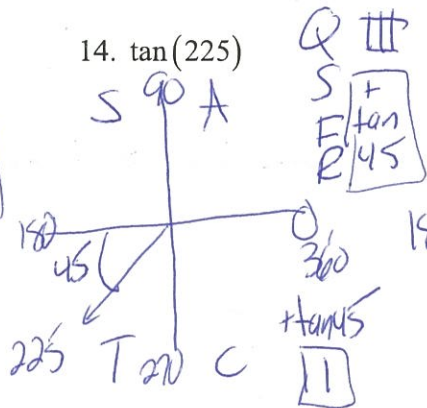
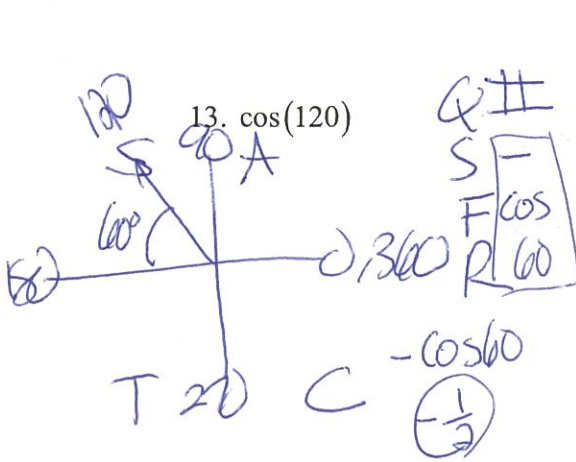
Q IV
S +
F COS
R 30
T 20 C $+\cos 30$
 $\frac{\sqrt{3}}{2}$

11. $\sin(315)$

Q IV
S -
F SIN
R 45
T 20 C $-\sin 45$
 $-\frac{\sqrt{2}}{2}$

12. $\tan(300)$

Q IV
S -
F TAN
R 60
T 20 C $-\tan 60$
 $-\sqrt{3}$



$-\tan 60 = -\sqrt{3}$ $-\cot 60 = -\frac{1}{\sqrt{3}}$