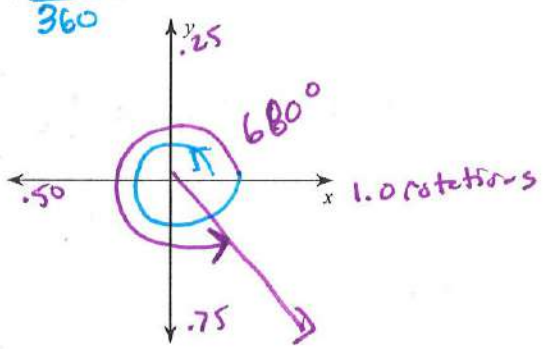
PreCalc B Name KEY ID: 1

5.1 Practice Quiz

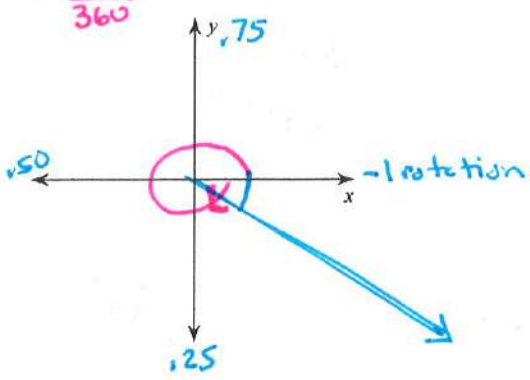
Date _____ Period ____

Draw an angle with the given measure in standard position.

1) $\frac{680°}{360} = 1.8$ rotations



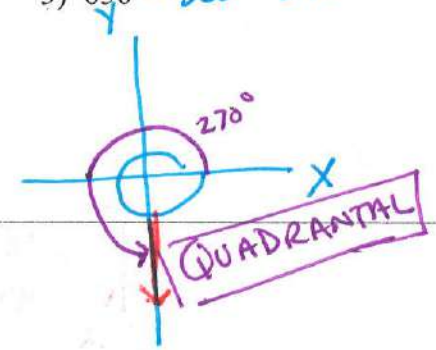
2) $\frac{-400°}{360} = -1.1$ rotations



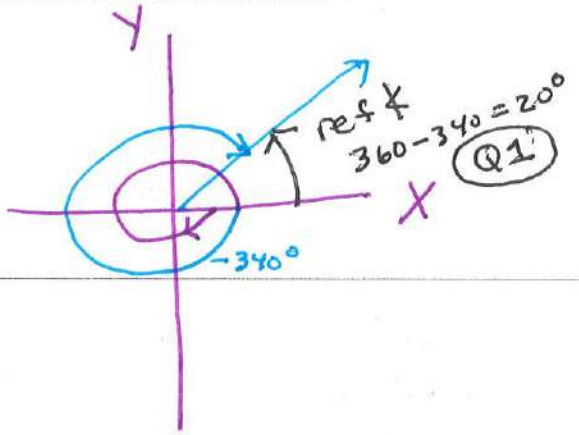
Sketch the angle.
Determine the reference angle & State its quadrant; or write "QUADRANTAL ANGLE."

acute angle closest to the X AXIS

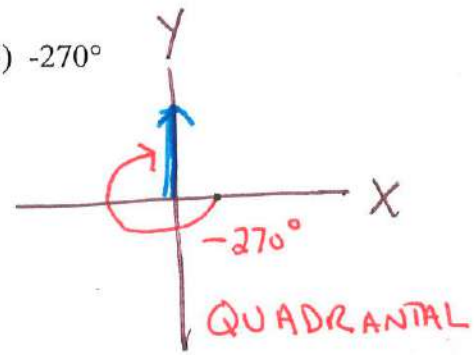
3) $630° - 360 = 270°$



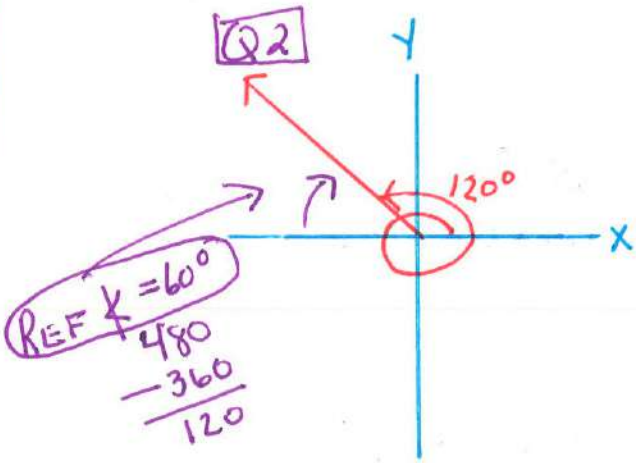
4) $-700° + 360 = -340$



5) -270°



TRY 480°



Find a positive and a negative coterminal angle for each given angle.

6) $-480°$ $\boxed{-480° + 360k°}$

$-480 + 360(-1) = \boxed{-840°}$

$-480 + 360(1) = \boxed{-120}$ ← BOTH CORRECT

$+360$

$\boxed{240°}$

7) $660°$ $\boxed{660° + 360k°}$

$660° + 360(-1) = \boxed{+300°}$

$-360°$

$\boxed{-60°}$

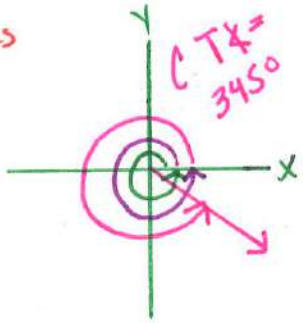
$660° + 360 = \boxed{1,020°}$ ← BOTH Correct

Find a coterminal angle between 0° and 360°. Provide a sketch to show the location of this angle.

8) $\frac{1065°}{360} = 2.95$ rotations

$1065 - 360(2)$

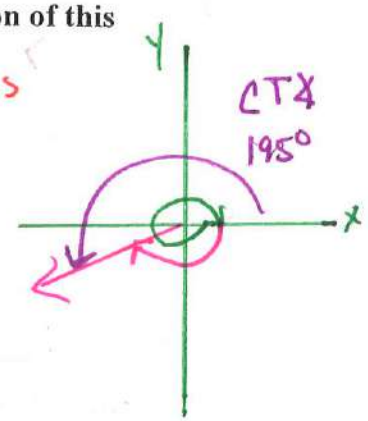
$\boxed{345°}$



9) $\frac{-525°}{360} = -1.46$ rotations

$-525 + 360(2)$

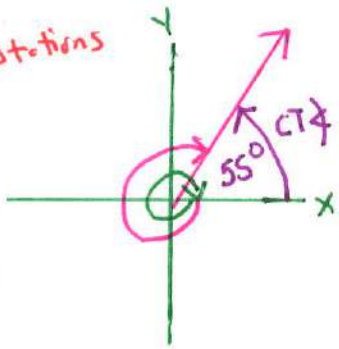
$\boxed{195°}$



10) $\frac{-665°}{360} = -1.85$ rotations

$-665 + 360(2)$

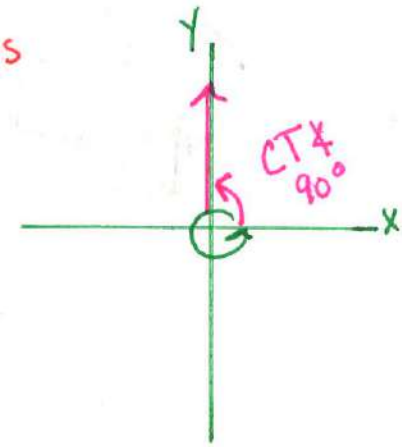
$\boxed{55°}$



11) $\frac{450°}{360} = 1.25$ rotations

$450 - 360(1)$

$\boxed{90°}$



KNOW HOW TO USE CALC

Convert each decimal degree measure into degrees-minutes-seconds.

12) $-320.585°$

BY HAND $\begin{cases} .585 \times (60) = 35.1 \\ .1 \times (60) = 6 \end{cases}$

$\boxed{-320° 35' 6''}$

Convert each degrees-minutes-seconds into decimal degrees. Round to nearest thousandth.

13) $165° 59' 42''$

BY HAND $165 + \frac{59}{60} + \frac{42}{3600} =$

$\boxed{165.995°}$