# 5.1 Practice Quiz

Date＿＿＿＿＿＿＿＿　Period＿＿＿

**Draw an angle with the given measure in standard position.**

1) $\dfrac{680°}{360} = 1.8$ rotations



680°

1.0 rotations

.25　.50　.75　$\pi$

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



.75　.50　.25

-1 rotation

**Sketch the angle.** → acute angle closest to the X AXIS
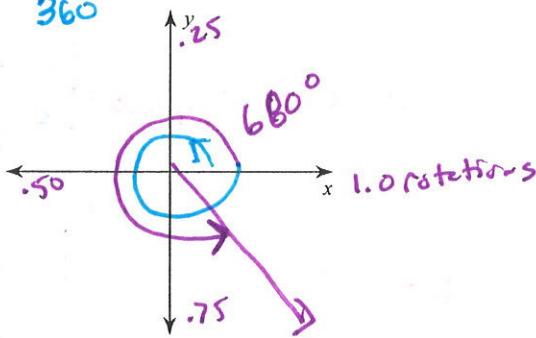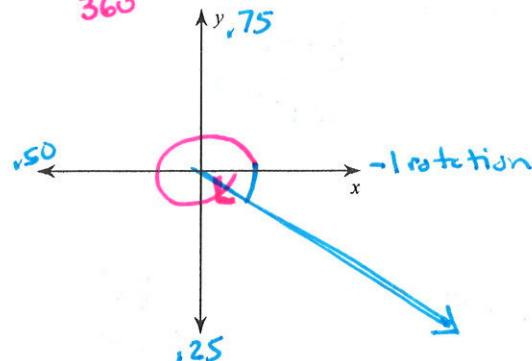
**Determine the reference angle & State its quadrant; or write "QUADRANTAL ANGLE."**

3) $630° - 360 = 270°$



270°

QUADRANTAL

4) $-700°$
$\dfrac{+360}{-340}$



ref ∡
$360 - 340 = 20°$　(Q1)

-340°

5) $-270°$



-270°

QUADRANTAL

TRY 480°



Q2

120°

REF ∡ = 60°
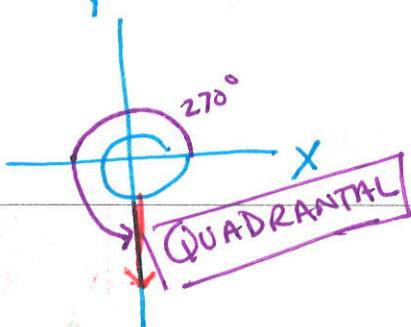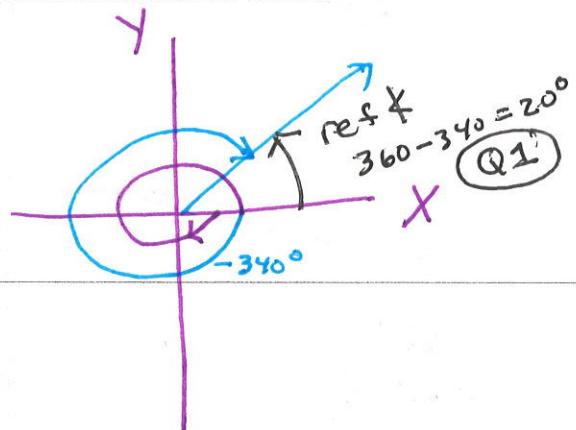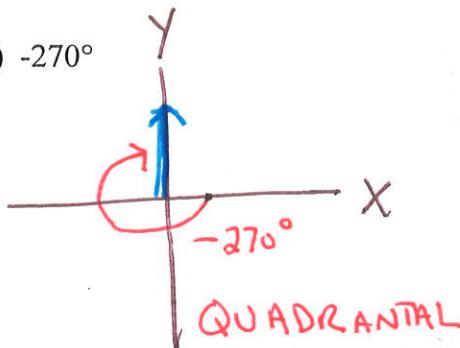
$480$
$\dfrac{-360}{120}$
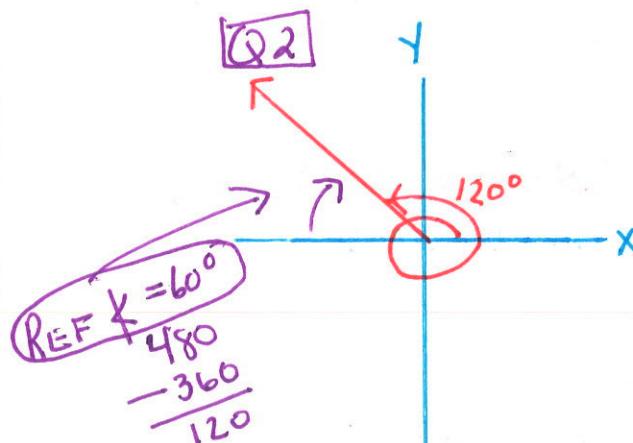
**Find a positive and a negative coterminal angle for each given angle.**

6) −480°    $\boxed{-480° + 360K°}$

$-480 + 360(-1) = \boxed{-840°}$

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

$\dfrac{+360}{\boxed{240°}}$

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) $\dfrac{1065°}{360} = 2.95$ rotations

$\begin{array}{r} 1065 \\ -\ 360(2) \\ \hline \boxed{345°} \end{array}$

CT∡ = 345°
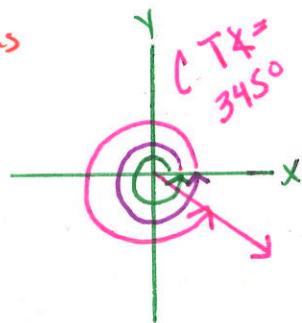
9) $\dfrac{-525°}{360} = -1.46$ rotations

$\begin{array}{r} -525 \\ +360(2) \\ \hline \boxed{195°} \end{array}$

CT∡ 195°
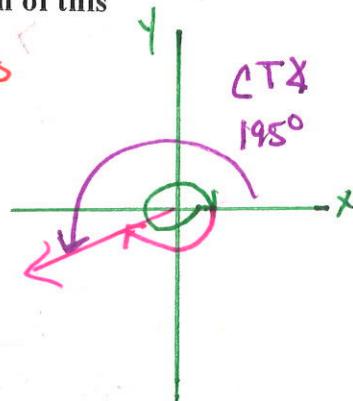
10) $\dfrac{-665°}{360} = -1.85$ rotations

$\begin{array}{r} -665 \\ +360(2) \\ \hline \boxed{55°} \end{array}$

55° CT∡
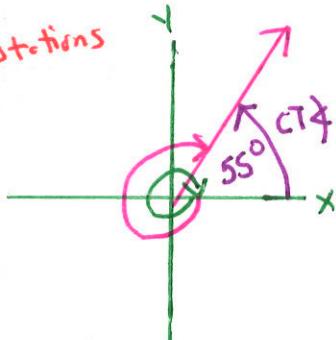
11) $\dfrac{450°}{360} = 1.25$ rotations

$\begin{array}{r} 450 \\ -360(1) \\ \hline \boxed{90°} \end{array}$

CT∡ 90°
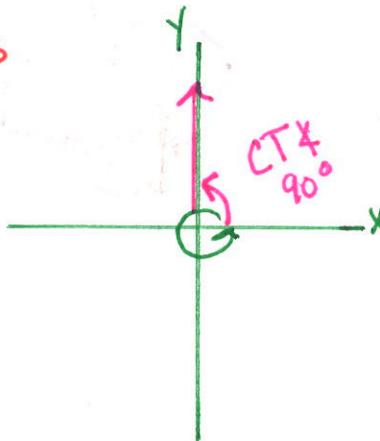
KNOW HOW TO USE CALC

**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 $\begin{cases} 165 + \dfrac{59}{60} + \dfrac{42}{3600} = \end{cases}$

$\boxed{165.995°}$