SM3 Unit9 Review Name:_____

For questions 1-3, please select the radian measure θ:

1) Convert $50°$ to radians.

2) Convert $585°$ to radians.

3) Convert $-35°$ to radians.

4) Convert $\frac{7\pi}{9}$ to degrees.

5) Convert $-\frac{\pi}{6}$ to degrees.

6) Convert $\frac{7\pi}{15}$ to degrees.

7) Which quadrant does the terminal side of $976°$ lie in?

8) Which quadrant does the terminal side of $-\frac{11\pi}{5}$?

9) Find a positive and negative coterminal angle for $-87°$.

10) Find a positive and negative coterminal angle for $\frac{22\pi}{3}$.

11) What is the reference angle for $19°$?

12) What is the reference angle for $-115°$?

13) What is the reference angle for $\frac{17\pi}{3}$?

14) What is the reference angle for $-\frac{5\pi}{4}$?

15) $\sec\theta =$

A $\frac{\cos\theta}{\sin\theta}$ B $\frac{\sin\theta}{\cos\theta}$ C $\frac{1}{\sin\theta}$ D $\frac{1}{\cos\theta}$

16) $\tan\theta =$

A $\frac{\cos\theta}{\sin\theta}$ B $\frac{\sin\theta}{\cos\theta}$ C $\frac{1}{\sin\theta}$ D $\frac{1}{\cos\theta}$

17) Evaluate $\sin(150°)$

18) Evaluate $\cos(30°)$

19) Evaluate $\cot(270°)$

20) Evaluate $\csc(405°)$

21) Evaluate $\sec\left(\frac{5\pi}{4}\right)$

22) Evaluate $\cot\left(-\frac{\pi}{3}\right)$

23) In the triangle, $BC = 4$, $AB = 7$. Find all six trig functions for α.