Name: _____ Date: _____

Instructions: Please complete the following problems for practice extra practice before the exam.

Problem 1. True or False: A negative anlge is formed by rotating counterclockwise.

Problem 2. True or False: The period of $y = \sin(x)$ is π

Problem 3. True or False: The amplitude of $y = \sin(x)$ is 0

Problem 4. True or False: $\sin^{-1}(-\frac{\sqrt{3}}{2}) = \frac{5\pi}{3}$

Problem 5. True or False: The domain of $f(x) = \cos^{-1}(x)$ is $0 \leq x \leq \pi$

Problem 6. Convert 20° to radians

Problem 7. Find the supplement of 70°

Problem 8. Find the reference angle of 170°

Problem 9. Find the angle between 0° and 360° that is coterminal with -500°

Problem 10. Given the point $(2, -5)$ on the terminal side of an angle, find the six trigonometric values.

Problem 11. Given $\sin\theta = \frac{3}{4}$, $\tan\theta < 0$, and find $\sec\theta$.

Problem 12. Graph one cycle of $y = -3\sin(\frac{1}{2}x) + 5$. Show ALL 4 steps you learned in class clearly.

Problem 13. Graph one cycle of $y = -\tan[2x - \frac{\pi}{2}] + 1$. Show ALL 4 steps you learned in class clearly.