Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Problem Set 3.7***

**Follow all directions and show all of your work in order to receive full credit.**

1. Fill out the degrees and radians of the unit circle from memory for practice. Fill in the missing angles and side lengths of the 30-60-90 and 45-45-90 triangles from memory.

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2. Give the terminal points for the three angles (30o, 60o, 45o) in the first quadrant.

**3 – 17] Evaluate the trigonometric expressions.**

3) $csc\left(\frac{17π}{6}\right)$ 4) $cos\left(-\frac{23π}{6}\right)$ 5) $tan\left(8π\right)$

6) $sin\left(\frac{5π}{2}\right)$ 7) $sin\left(\frac{8π}{3}\right)$ 8) cos(660o)

9) $cos\left(-7π\right)$ 10) $sin\left(-\frac{13π}{4}\right)$ 11) sec (450o)

12) $cos\left(\frac{4π}{3}\right)$ 13)$ sin\left(9π\right)$ 14) csc(510o)

15) $csc\left(\frac{-7π}{6}\right)$ 16) $sin\left(-\frac{8π}{3}\right)$ 17) sec (390o)