***Problem Set 3.4***

**1.) Sketch the following angles in standard position. Then convert the degree measures into radian measures.**

a) 300o b) -120o

c) 200 d) -72o

e) 150o f) 240o

**2.) Sketch the following angles in standard position. Then convert the radian measures into degree measures.**

a) $\frac{8π}{9}$ b) $\frac{13π}{2}$

c) -$\frac{5π}{6}$ d) $\frac{23π}{3}$

e) $\frac{4π}{11}$ f) $-\frac{13π}{8}$

**3.) Sketch the given angle. Then give three coterminal angles (one must be negative).**

a)$\frac{2π}{3}$ b) $\frac{π}{8}$ c) $-5π$

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d) $-\frac{13π}{9}$ e) $\frac{5π}{4}$ f) $\frac{11π}{6}$

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**4.) Sketch the given angle. Then give its reference angle.**

a) $\frac{17π}{12}$ b)$-\frac{5π}{3}$

Reference Angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Reference Angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) $\frac{3π}{5}$ d) $-\frac{7π}{6}$

Reference Angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Reference Angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_