

Problem Set 3.4

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

a) 300°

b) -120°

c) 20°

d) -72°

e) 150°

f) 240°

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

a) $\frac{8\pi}{9}$

b) $\frac{13\pi}{2}$

c) $-\frac{5\pi}{6}$

d) $\frac{23\pi}{3}$

e) $\frac{4\pi}{11}$

f) $-\frac{13\pi}{8}$

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

a) $\frac{2\pi}{3}$

b) $\frac{\pi}{8}$

c) -5π

d) $-\frac{13\pi}{9}$

e) $\frac{5\pi}{4}$

f) $\frac{11\pi}{6}$

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

a) $\frac{17\pi}{12}$

b) $-\frac{5\pi}{3}$

Reference Angle: _____

Reference Angle: _____

c) $\frac{3\pi}{5}$

d) $-\frac{7\pi}{6}$

Reference Angle: _____

Reference Angle: _____

