

## Work Sheet: sine, cosine and tangent

### Problem 1

State the exact value of the sine, cosine or tangent. Make a quick hand sketch for every exercise.

a)  $\sin(60^\circ)$

b)  $\cos(120^\circ)$

c)  $\tan(30^\circ)$

d)  $\cos(315^\circ)$

e)  $\sin(-60^\circ)$

f)  $\tan(135^\circ)$

### Problem 2

State the exact value of the sine, cosine and tangent of the given radian measures. Make a quick hand sketch for every exercise.

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

b)  $\frac{5\pi}{6}$

c)  $3\pi$

d)  $-\frac{4\pi}{3}$

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

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

### Problem 3

State the quadrant in which the terminal point of the arc lies and find the coordinates of the terminal point  $(x|y)$  on the unit circle. Make a quick hand sketch for every exercise.

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

b)  $\frac{7\pi}{6}$

c)  $4\pi$

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

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

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