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### Worksheet 2: Trigonometric Functions of any angle

1. Given that  $\sin\theta = \frac{5}{6}$ ,  $90^\circ < \theta < 180^\circ$ , sketch the reference angle for  $\theta$ . Hence, find the value for each of the following trigonometric functions.

a.  $\cos\theta =$

b.  $\tan\theta =$

c.  $\csc\theta =$

d.  $\sec\theta =$

e.  $\cot\theta =$

f.  $\cos(-\theta) =$

2. Rewrite the value of each functions in terms of real numbers  $\theta$  from 0 to  $\frac{\pi}{2}$ .

a.  $\sin\frac{26\pi}{9} =$

b.  $\cos\frac{23\pi}{12} =$

c.  $\cos\frac{53\pi}{18} =$

d.  $\sin\frac{19\pi}{10} =$

e.  $\sin\frac{17\pi}{12} =$

f.  $\cos\frac{6\pi}{5} =$