Nickname :_____No.__M5/15

Worksheet 2: Trigonometric Functions of any angle

1. Given that $sin\theta = \frac{5}{6}$, $90^0 < \theta < 180^0$, sketch the reference angle for θ. 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 θ 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. $\cos\frac{6\pi}{5} =$

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