

**A2.A.66: Determining Trigonometric Functions: Determine the trigonometric functions of any angle, using technology**

- 1 The value of  $\cos 305^\circ$  is
 

1) 0.5736	3) -0.8192
2) 0.8192	4) -0.5736
  
- 2 The value of  $\tan 126^\circ 43'$  to the *nearest ten-thousandth* is
 

1) -1.3407	3) -1.3548
2) -1.3408	4) -1.3549
  
- 3 The value of  $\csc 138^\circ 23'$  rounded to four decimal places is
 

1) -1.3376	3) 1.5012
2) -1.3408	4) 1.5057
  
- 4 Which expression, when rounded to three decimal places, is equal to -1.155?
 

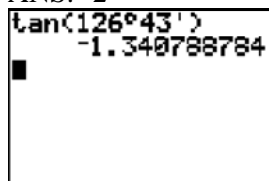
1) $\sec\left(\frac{5\pi}{6}\right)$	3) $\sin\left(-\frac{3\pi}{5}\right)$
2) $\tan(49^\circ 20')$	4) $\csc(-118^\circ)$
  
- 5 Find the value of  $\cos 32^\circ 32'$  to *four decimal places*.
  
- 6 Find the value of  $\sin 37^\circ 34'$  to *four decimal places*.
  
- 7 Find  $\tan 27^\circ 13'$  to *four decimal places*.
  
- 8 Find the value of  $\tan 31^\circ 27'$  to *four decimal places*.
  
- 9 Find the value of  $\tan 27^\circ 26'$  to *four decimal places*.

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### Answer Section

1 ANS: 1 REF: 088621siii

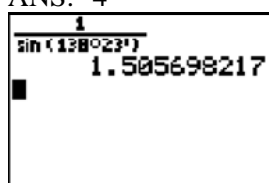
2 ANS: 2



A calculator screen showing the calculation of the tangent of an angle. The input is  $\tan(126^\circ 43')$  and the output is  $-1.340788784$ .

REF: 061115a2

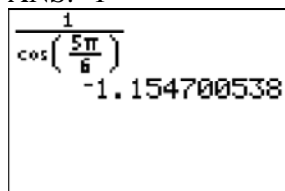
3 ANS: 4



A calculator screen showing the calculation of the reciprocal of the sine of an angle. The input is  $\frac{1}{\sin(138^\circ 23')}$  and the output is  $1.505698217$ .

REF: 061217a2

4 ANS: 1



A calculator screen showing the calculation of the reciprocal of the cosine of an angle in radians. The input is  $\frac{1}{\cos(\frac{5\pi}{6})}$  and the output is  $-1.154700538$ .

REF: 011203a2

5 ANS:

0.8431

REF: 068616siii

6 ANS:

0.6097

REF: 068908siii

7 ANS:

0.5143

REF: 088516siii

8 ANS:

0.6116

REF: 018716siii

9 ANS:  
0.5191

REF: 068815siii