

1. Find the reference angle for the following angles.

a) 212°

b) -80°

c) 850°

2. Find the values of the six trig functions for -30° .

3. Find exact values for the following.

a) $\cos 420^\circ$

b) $\csc(-495^\circ)$

4. Evaluate. (Recall: $\cot^2 135^\circ = (\cot 135^\circ)^2$)
 $\cot^2 135^\circ - \sin 30^\circ + 4 \tan 45^\circ$

5. Use a calculator to find a decimal approximation for each value. Give as many digits as your calculator displays. (Note: be sure to set your calculator for degree mode!)

a) $\sin 97.978^\circ$

b) $\sec 36^\circ$

c) $\tan 41^\circ 15'$

d) $\cot(-125^\circ)$