My signature on this assessment confirms I have used no outside resources and adhered to all assessment protocols assigned to this part of the daily grade/quiz/test/exam.
Accel Precalc Daily Grade \#25 Name
$\qquad$
Unit \#6: Graphs and Inverses of Trig Functions [60 total pts]

## Part I: GRAPHING OR SCIENTIFIC CALCULATOR ALLOWED. NO UNIT CIRCLE

* For angle answers, respond in degrees or decimal radians, both rounded to nearest hundredth. MUST include unit with angle answer. For ratio answers, round to nearest hundredth.

Evaluate each expression. [5 pts each]

1. $\sin ^{-1}(-0.58)$
2. $\sec ^{-1}(-1.58)$
3. $\cot ^{-1}(3.2)$
4. $\cos ^{-1}(1.32)$
5. $\tan ^{-1}(-2.56)$

* Find the sinusoidal equation in the form $y=A \sin [B(x-C)]+D$ for the given expression. You must show correct work to support all values to receive credit for answer. [10 pts]

Place your calculator in Radian mode. Set your Window: $X$ values $[-2 \pi, 2 \pi]_{\pi}$ Y values $[-8,8]_{1}$
To check answer, set your window: $\quad \mathrm{X}$ values $[-\pi, \pi]_{\frac{\pi}{4}}$
6. $y=2 \sin (3 x)+3 \cos (3 x) \quad y=$ $\qquad$
$\max =$ $\qquad$

$$
\min =\ldots \quad \text { zero } 1=
$$

$\qquad$ zeroz $=$ $\qquad$

WORK: |  | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

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Unit \#6: Graphs and Inverses of Trig Functions

## Part II: 4-Function Calculator Only. Unit Circle Allowed.

$>$ For angle answers, respond in degrees or $\pi$ radians. Be sure to include unit with angle answer. For ratio answers, give exact values.

Evaluate each expression. [5 pts each]
7. $\sin ^{-1}(-1)$
8. $\cot ^{-1}\left(\frac{-\sqrt{3}}{3}\right)$
9. $\sec ^{-1}(2)$
10. $\cos ^{-1}\left[\sin \left(\frac{-\pi}{4}\right)\right]$
11. $\sin \left[\cos ^{-1}\left(\frac{5}{13}\right)\right]$


