## Algebra II <br> 12-4 <br> Values of Trigonometric Functions

Find the measure of the acute angle $\theta$ to the nearest tenth of a degree

$$
\begin{aligned}
& \text { 25) } \sin \theta=0.3400 \\
& \theta=\sin ^{-1}(.3400) \\
& \theta=19.9^{\circ}
\end{aligned}
$$

Find each function value to four significant figures

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1) \(\tan 15.2^{\circ}=0.2717\) What does this meon?
```

by the esdifcent in a


17) $\underset{\sec 1113^{\circ} \text { sec, esc cot }}{ }$
7) $\begin{array}{r}\sec 111.3^{\circ} \text { ses, ese, oot } \\ \text { Not } \cos ^{-1}\end{array}$

$$
\frac{1}{\cos \left(111.3^{\circ}\right)}=-2.753
$$



Find the measure of the acute angle $\theta$ to the nearest minute. 31) $\cos \theta=0.8621$

```
0= \mp@subsup{\operatorname{cos}}{}{-1}(.8621)
0=30.446... DDMS
0=30
    \approx30}27\mp@subsup{7}{}{\prime
```

Find the measures of two angles between $0^{\circ}$ and $360^{\circ}$ with the given function value. Give answers to the nearest tenth of a degree.

## 37) $\sin \theta=0.4875$ <br> ``` 0=\mp@subsup{\operatorname{sin}}{}{-1}(0.4875) <br> O

=29.\mp@subsup{2}{}{\circ <br> O=150.8*```}


Assignment:
Pg. 572
2-44 even```

