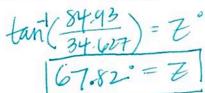
Part II) Practice Problems

1. Calculate the value of x to the nearest degree: $\sin x^{\circ} = 0.78801$

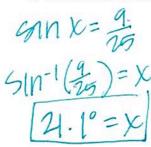
 $5n^{-1}(.7880|)=10$

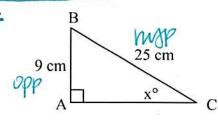
2. Calculate the value of y to the nearest tenth: $\cos y^{\circ} = \frac{24}{25}$

3. Calculate the value of z to the nearest hundredth: $\tan z^{\circ} = \frac{84.93}{34.627}$



4. Determine the measure of angle x to the nearest tenth.

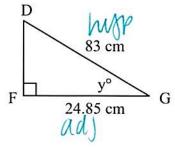




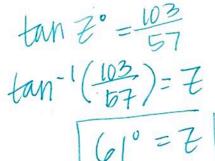
5. Determine the measure of angle y to the nearest hundredth.

$$6099 = \frac{24.85}{83}$$

$$(05^{-1}(\frac{24.85}{83}) = 1)$$
 $(72.58° = 4)$

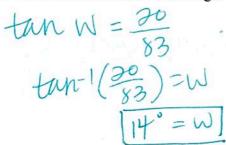


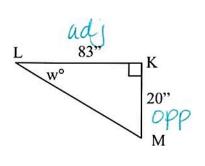
6. Determine the measure of angle z to the nearest degree.



e.
$$z^{\circ}$$
 $Ad = 103$
 $A = 103$
 $A = 103$

7. Determine the measure of angle w to the nearest degree.





8. Error Analysis: Josh was asked to determine the measure of angle x to the nearest hundredth. His teacher marked it incorrect. His work is shown below. Find his error, and then correct it.

$$\sin x = \frac{100}{172}$$

rewrite:

$$x = \sin^{-1}(\frac{100}{172})$$

use a decimal approximation:

$$x = \sin^{-1}(0.58140)$$

if you raise it to the -1 power, use a reciprocal:

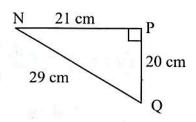
$$x = \frac{1}{\sin(0.58140)}$$

$$\chi = 35.55$$

Simplify:

$$x = \frac{1}{0.01015}$$
$$x = 98.52^6$$

9. For the triangle pictured, Marcy placed her finger on the vertex of angle N and concluded that $\cos N = \frac{21}{29}$. Likewise, Timmy placed his finger on the vertex of angle N and concluded that $\sin N = \frac{20}{29}$.



a) If you solve it beginning with Marcy's equation,

what answer will she get? $(MSN) = \frac{1}{35} = \frac{1}{3}$

b) If you solve it Timmy's way, what answer will he get?

c) Are these results reasonable? Explain.

