Trig ratios can also be used to find the measures of angles of a right triangle that are not known. Examples: For the following triangles, identify the trig ratio to use, write the equation and solve it to one decimal place using the INVERSE TRIG buttons on your calculator.
$\sin ^{-1}$
$\cos ^{-1}$
$\tan ^{-1}$
a)

35


Have:

Need:
Use:

12
b)


Have:
Need:

Use:

91
c)

Ex. 2 Solve $\triangle \mathrm{XYZ}$ given that $\angle X=90^{\circ}, x=8.2 \mathrm{~cm}, z=6.0 \mathrm{~cm}$.

To solve means $\qquad$


