## Apprenticeship Math 12

## ASSIGNMENT: Multiple Right Triangles

$\qquad$
Date: $\qquad$

1. Calculate the indicated values. Round lengths to the nearest tenth and angles to the nearest degree.
a)


$$
x=
$$

$\qquad$
b)

c)

d)

$x=$ $\qquad$
$\qquad$

$$
\theta=
$$

$\qquad$
e)

$x=$ $\qquad$
$y=$ $\qquad$
$\theta=$ $\qquad$
2. Mary is helping to build a cabin. The diagram below shows the design of the roof trusses.

a) How many right triangles do you see? $\qquad$
b) Determine the value of the unknown angle ( $\theta$ ), to the nearest degree.

$$
\theta=
$$

c) Determine the lengths of $x$ and $y$, to the nearest hundredth.

$$
\begin{aligned}
& x= \\
& y= \\
&
\end{aligned}
$$



