Math 2
Unit 4B Quiz Review

Name: $\qquad$
Date: $\qquad$

For questions $1-4, \triangle A B C \cong \triangle X Y Z$.

| 1) | $\begin{array}{\|l\|} \hline m \angle A=108 \\ m \angle B=42 \\ A B=4 \\ B C=54 \\ \text { perimeter of } \triangle A B C=75 \end{array}$ | $\begin{aligned} & m \angle X= \\ & m \angle Y= \\ & m \angle Z= \\ & X Y= \\ & Y Z= \\ & X Z= \end{aligned}$ |
| :---: | :---: | :---: |
| 2) | $\begin{aligned} & m \angle A=11 x-46 \\ & m \angle X=6 x+34 \\ & A C=2 y+11 \\ & X Z=6 y-37 \end{aligned}$ | $\begin{aligned} & x= \\ & m \angle A= \\ & m \angle X= \\ & y= \\ & A C= \\ & X Z= \end{aligned}$ |
| 3) | $\begin{aligned} & \mathrm{m} \angle A=74 \\ & m \angle B=83 \\ & m \angle Z=2 x+5 \\ & A B=x+8 \\ & X Z=5 x-12 \end{aligned}$ | $\begin{aligned} & x= \\ & m \angle X= \\ & m \angle Y= \\ & m \angle Z= \\ & X Y= \\ & X Z= \end{aligned}$ |
| 4) | $\begin{aligned} & m \angle A=5 x+47 \\ & m \angle B=4 x+6 \\ & m \angle C=5 y-4 \\ & m \angle X=92 \\ & A B=y+11 \\ & B C=4 x-1 \end{aligned}$ | $\begin{aligned} & x= \\ & y= \\ & m \angle Y= \\ & m \angle Z= \\ & X Y= \\ & Y Z= \end{aligned}$ |

Determine if the following triangles are congruent. If yes, make a congruency statement and give the reason why they are congruent. If they are not congruent, write "not congruent".
8)

