

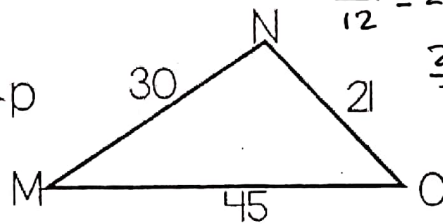
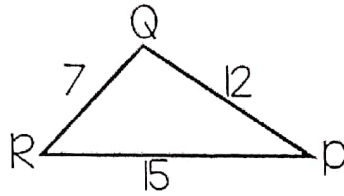
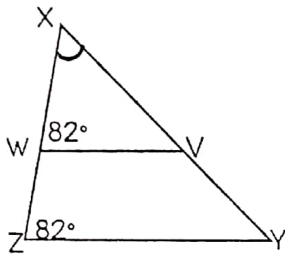
## Unit 7 Quiz 2 Practice Problems

The quiz tomorrow will cover mostly three topics: Triangle Similarity, Triangle Midsegment Theorem, and Isosceles triangles. Do these problems and the quiz will feel familiar! This will be due at the beginning of class!

Determine if the following triangles are similar by AA, SSS, SAS, or not similar.

$\triangle XWV \sim \triangle XZY$

by AA



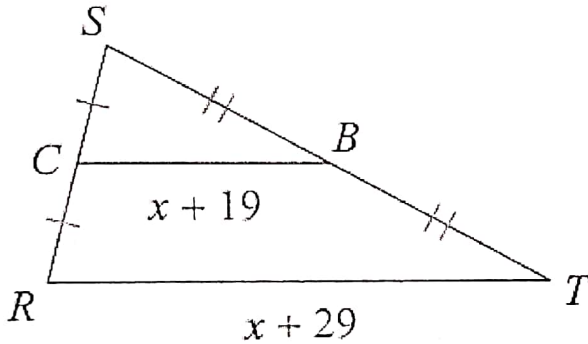
$$\frac{45}{15} = 3$$

$$\frac{30}{12} = 2.5$$

$$\frac{21}{7} = 3$$

not equal so not similar

Given the following triangle, solve for x using the triangle midsegment theorem.



$$2(x + 19) = x + 29$$

$$2x + 38 = x + 29$$

$$\begin{array}{r} 2x + 38 = x + 29 \\ -x \quad \quad -x \\ \hline x + 38 = 29 \\ -38 \quad -38 \\ \hline x = -9 \end{array}$$

$$\boxed{x = -9}$$

Given the following isosceles triangles, solve for x.

