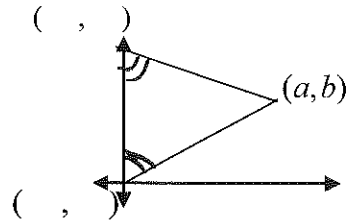
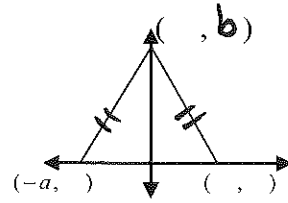
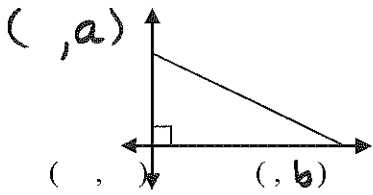
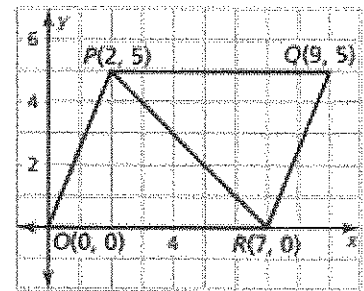


1. Name the missing coordinates of each triangle:



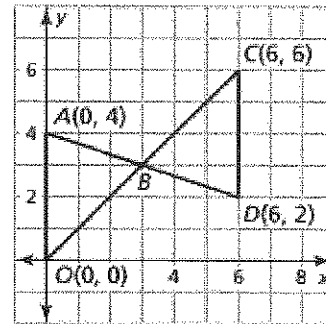
Given Coordinates of vertices of $\triangle OPR$ and $\triangle QRP$

Proof $\triangle OPR \cong \triangle QRP$



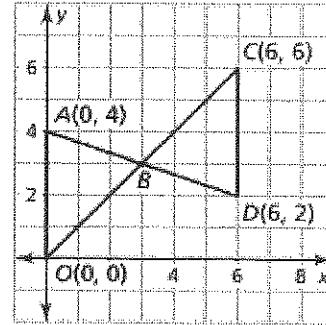
Given Coordinates of vertices of $\triangle OAB$ and $\triangle CDB$

Prove B is the midpoint of \overline{AD} and \overline{OC} .

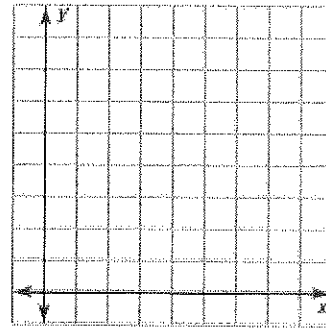


Given Coordinates of vertices of $\triangle OAB$ and $\triangle CDB$

Prove B is the midpoint of \overline{AD} and \overline{OC} .



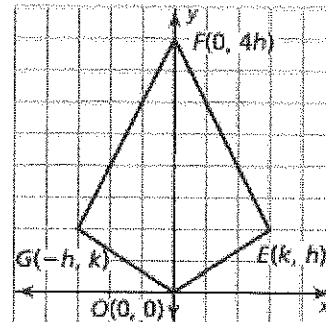
Graph the triangle with vertices $A(0, 0)$, $B(3m, m)$, and $C(0, 3m)$. Find the length and the slope of each side of the triangle. Then find the coordinates of the midpoint of each side. Is the triangle a right triangle? isosceles? Explain. (Assume all variables are positive.)



Write a coordinate proof.

Given Coordinates of vertices of $\triangle OEF$ and $\triangle OGF$

Prove $\triangle OEF \cong \triangle OGF$

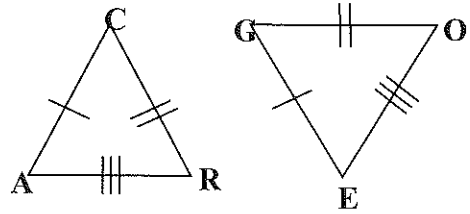


Review: Triangles and Triangle Congruence

You will need a separate piece of paper to show all your work. This review is *not* comprehensive; always be sure to go back through your old homework and quizzes.

⊙ I can write a congruency statement representing two congruent polygons

1. Write a congruency statement for the two triangles at right.

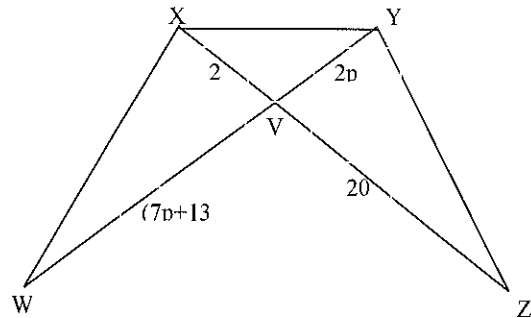


⊙ I can identify congruent parts of a polygon, given a congruency statement

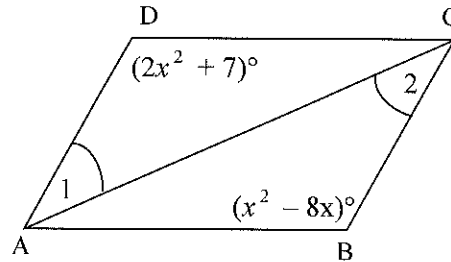
2. List ALL of the congruent parts if $\triangle EFG \cong \triangle HGF$

⊙ I can use algebra to find the side lengths and angle measures of congruent polygons

3. $\triangle WXY \cong \triangle ZYX$. Find p.



4. $\triangle ADC \cong \triangle CBA$. Find x.



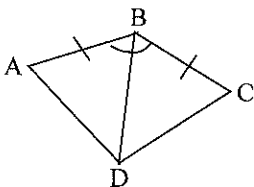
⊙ I can name the five ways to prove triangles are congruent

5. Name the 5 ways to prove triangles congruent.

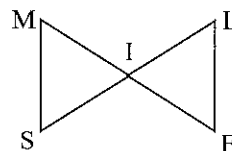
⊙ I can prove triangles are congruent

For each pair of triangles, tell: (a) Are they congruent (b) Write the triangle congruency statement. (c) Give the postulate that makes them congruent.

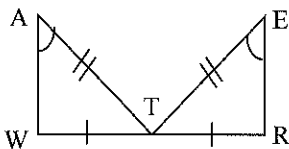
6.



8. Given: I is the midpoint of \overline{ME} and \overline{SL}

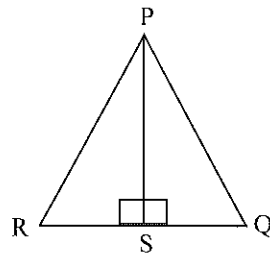


7.

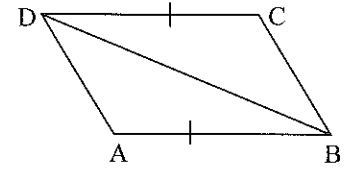


⊙ I can mark pieces of a triangle congruent given how they are to be proved congruent

9. What information is missing to use HL?

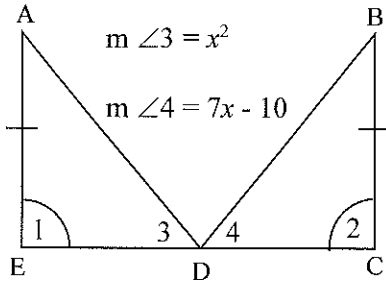


10. What information is missing to use SAS?

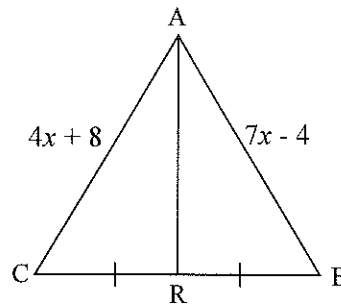


IV. For which value(s) of x are the triangles congruent?

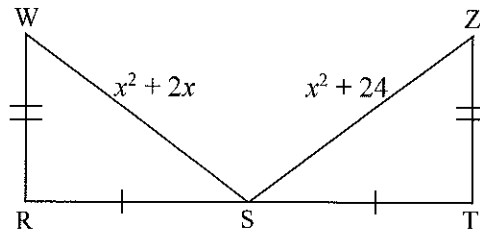
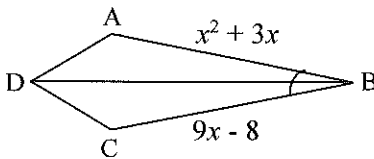
3. $x =$ _____



4. $x =$ _____



5. $x =$ _____

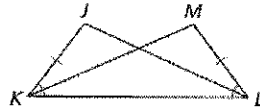


⊙ I can write a two-column proof over congruent triangles

11.

Given: $\overline{JK} \cong \overline{ML}$, $\angle JKL \cong \angle MLK$

Prove: $\triangle JKL \cong \triangle MLK$



12. Complete and review ALL proofs on the proofs worksheet.