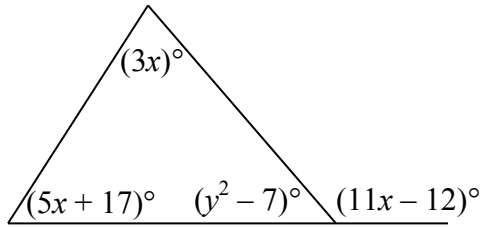


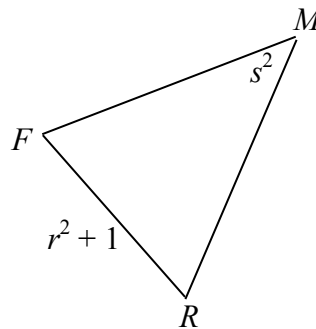
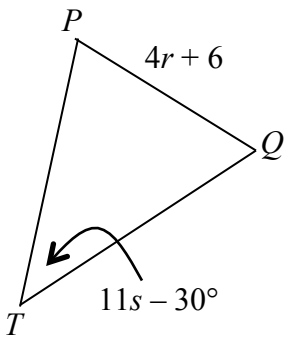
Chapter 4 Practice Test 1

A.M.D.G.

1. Find the values of x and y . Show all work. State the reason(s) why you set up the equations the way you did.

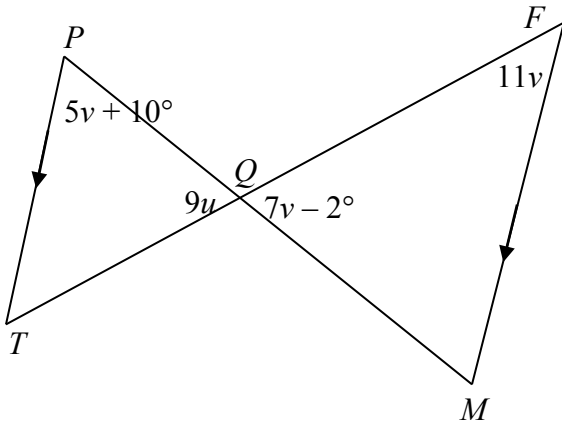


2. Given that $\triangle PTQ \cong \triangle RMF$, find the values of r and s . Show all work. State the reason(s) why you set up the equations the way you did. Then find $m\angle M$ and QP . (Note: There may be multiple answers.)



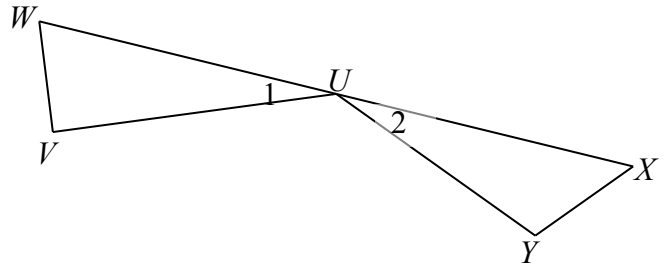
Chapter 4 Practice Test 1

3. Find the value of u and v . Show all work. State the reason(s) why you set up the equations the way you did.



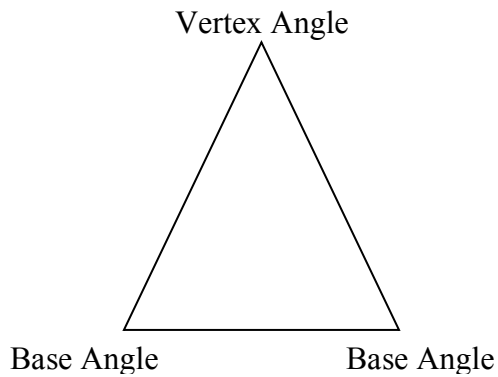
4. **Given:** U is the midpoint of \overline{XW} , $\angle X \cong \angle W$, $\angle 1 \cong \angle 2$

Prove: $\triangle UVW \cong \triangle UYX$ using the Triangle Congruence Theorem



Chapter 4 Practice Test 1

5. In an isosceles triangle, one of the base angles is twice the vertex angle, the other base angle is 17° less than 5 times the vertex angle. Find the measure of each angle in this triangle.



6. In the diagrams below, solve for x , y and z .

