

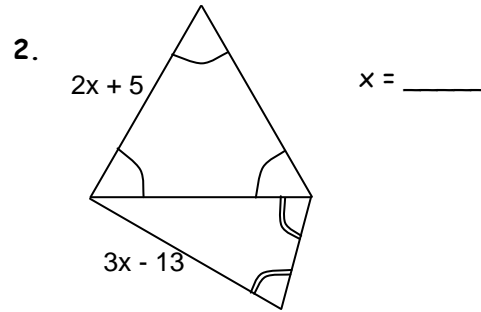
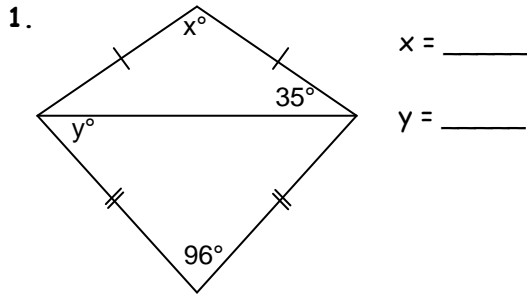
8.2 Isosceles Triangles and Base Angles Theorem
Pre-AP Geometry HW

Name _____

Period _____

Date _____

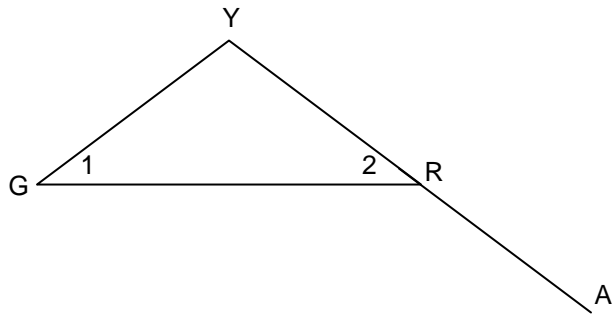
Directions: You MUST show all work to receive any credit.



3. In $\triangle JKL$, $m\angle J = 40^\circ$ and $\overline{JK} \cong \overline{JL}$. If $m\angle K = (4x + y)^\circ$ and $m\angle L = (6x - 2y)^\circ$ write a system of equations and solve for x and y . Show all algebra.

4. In $\triangle PQR$, $m\angle P = 50^\circ$ and $\overline{PQ} \cong \overline{QR}$. If $m\angle Q = (5x - 2y)^\circ$ and $m\angle R = (2x + y)^\circ$ write a system of equations and solve for x and y . Show all algebra.

5. Given: R is the midpoint of \overline{YA} ; $\angle 1 \cong \angle 2$
Prove: $\overline{GY} \cong \overline{RA}$



6. Given: $\overline{AE} \cong \overline{DC}$; $\angle A \cong \angle C$
Prove: $\triangle ABE \cong \triangle CBD$

