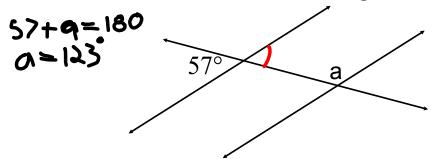
If it is raining, then the sidewalk is wet.

Converse: If the Sidewalk is wetthen it is raining

Inverse: If it is not raining, the sidewalk is not wet.

Contrapositive: If The Side Walk IS NOT WET IT IS NOT RAINING

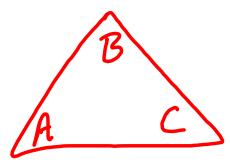
What is the measure of angle a?



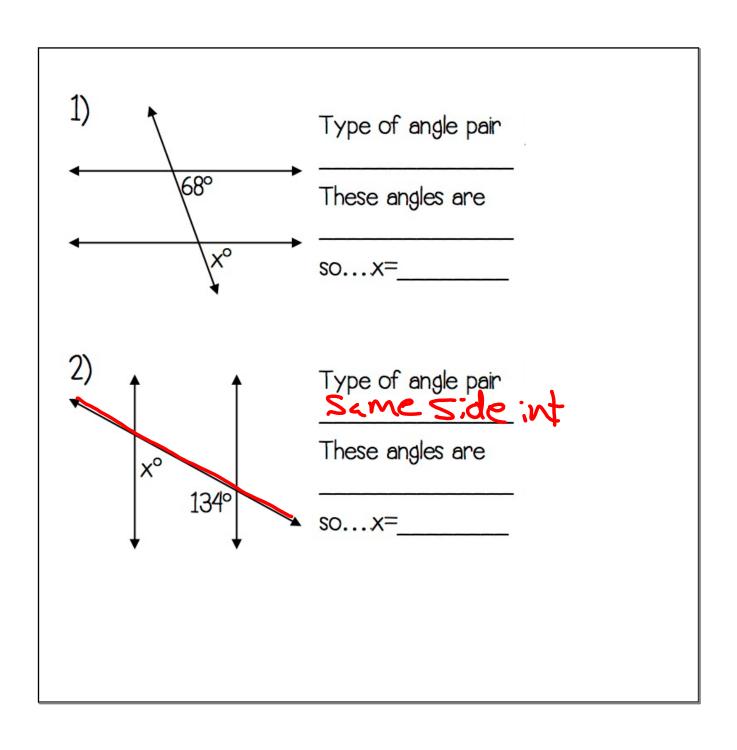
7-4 Properties of Triangles

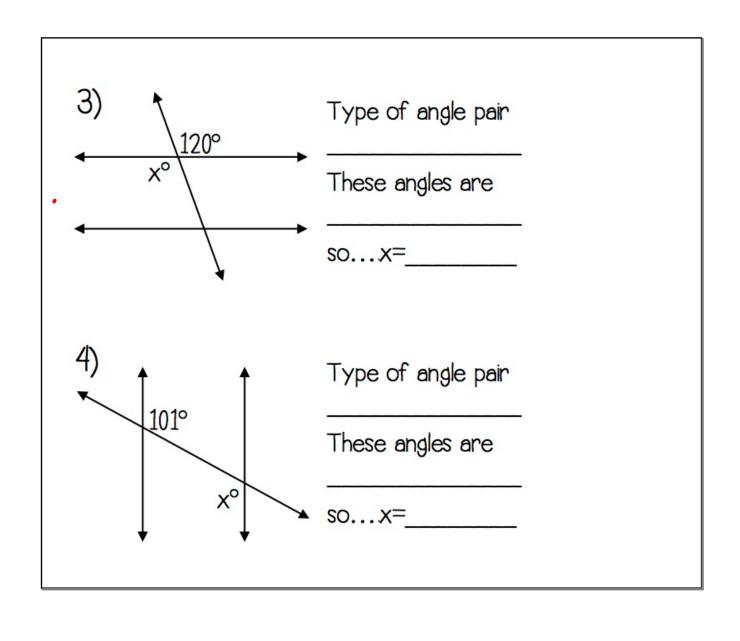
I can find missing angle measures in a triangle.

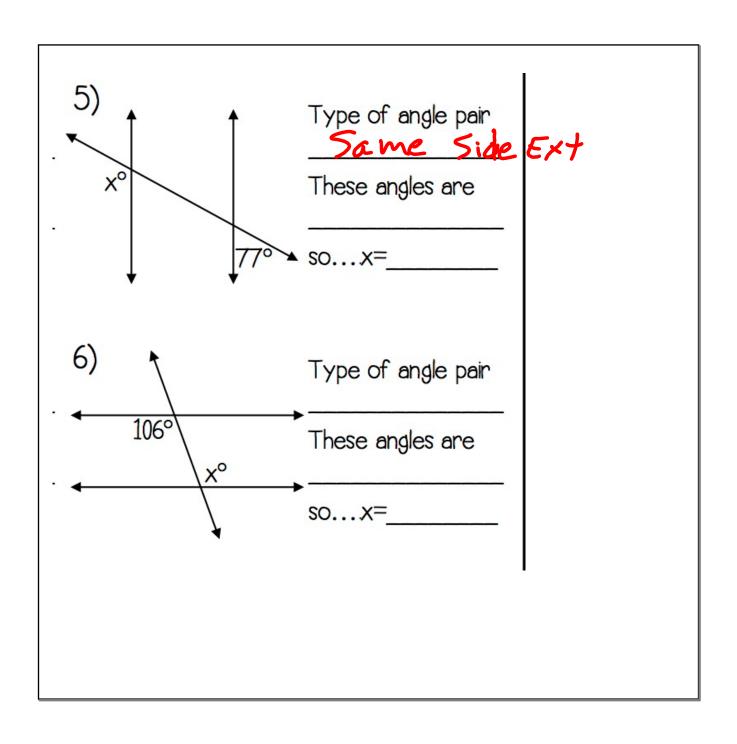
I can solve problems using properties of triangles (isosceles, midsegments, angle sum). The Triangle Sum Theorem:
The sum of the measures of the interior angles of a triangle is 180°.

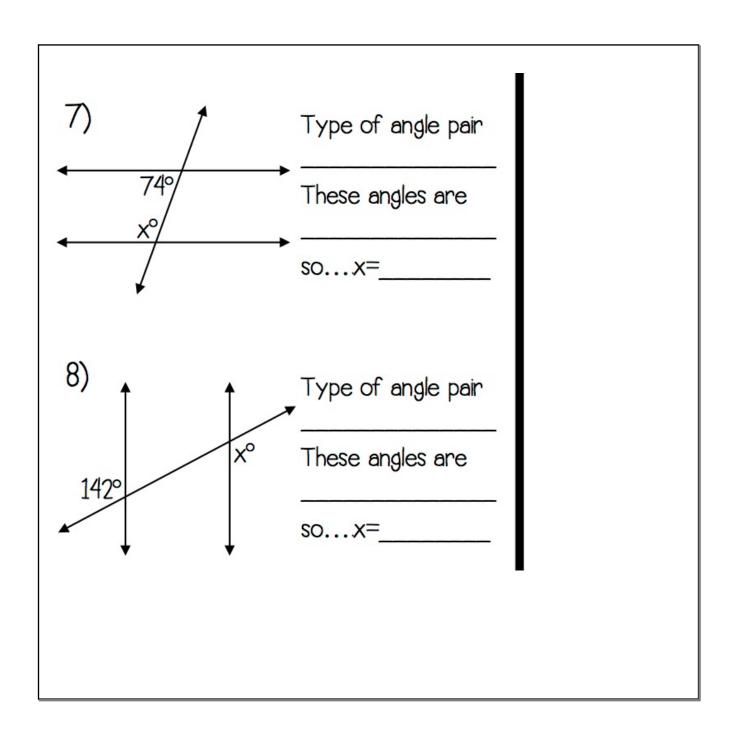


A+B+C=180

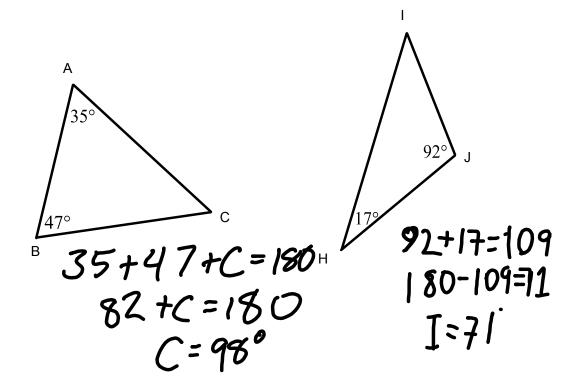








Find the missing angle measures:



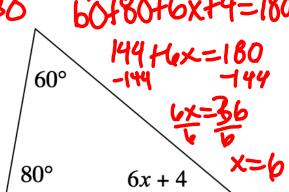
Find the value of x. Justify your answer (in words).

55+80+X+56780

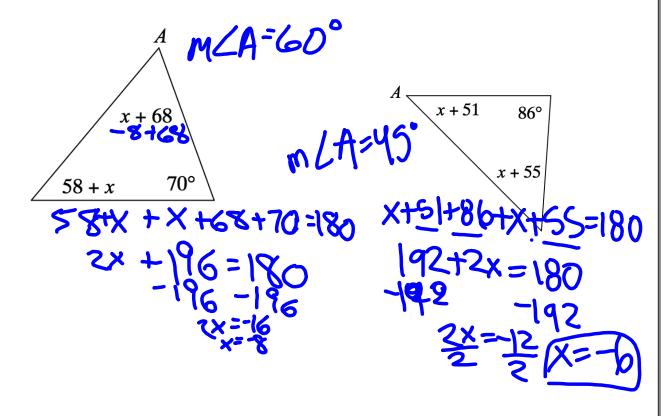
$$X + 19/ = 180$$
 $-191 - 191$
 55°
 $X = -11$

x + 56

80°

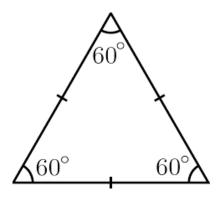


Find the measure of angle A. Explain your reasoning (in words).



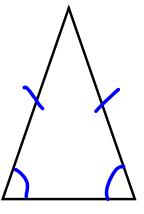
Equilateral Triangle:

All angles in the triangle are congruent. All sides in the triangle are congruent.



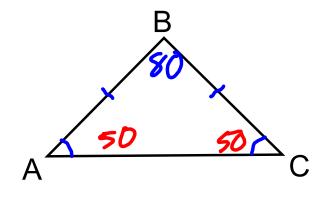
Isosceles Triangle:

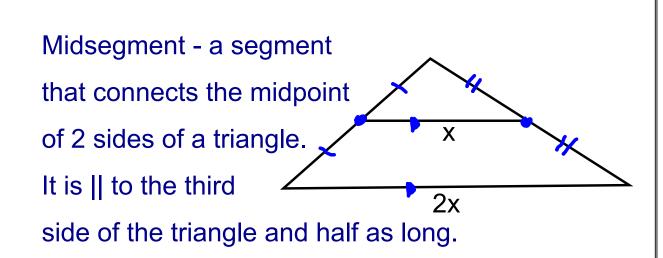
At least 2 sides (called the *legs*) of the triangles are congruent.

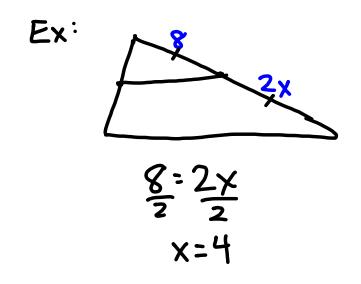


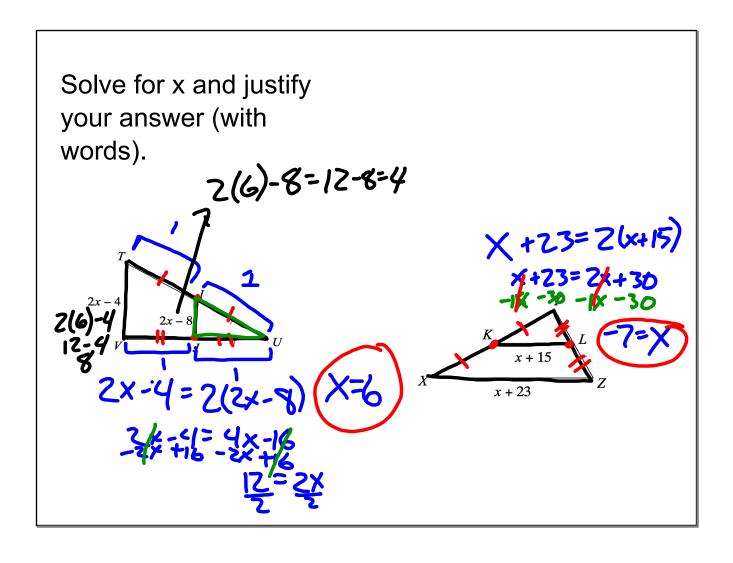
Base Angles

Find the measure of all angles in triangle ABC if angle B is 80°.









A Circle has 1 side. Two circles can be parallel.