

# Geometry

Directions: Show all your work. Write your answers in the boxes. Good Luck! Si se puede. Yes I can!

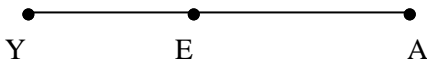
1.) Andy read the following statements:

$\angle 1, \angle 7$  are supplementary

$\angle 7, \angle 8$  are supplementary

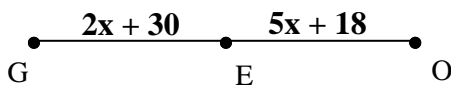
What can Andy conclude?

2.) Given  $YA = 24$ ,  $YE = 3x + 10$ ,  
 $EA = 6x - 22$  Solve for  $x$ .



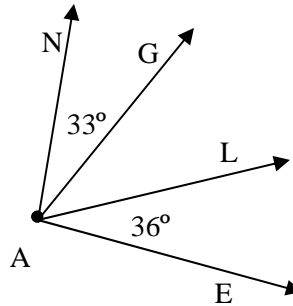
3.) I is between N and E.  
 C is between I and E.  
 $NE = 45$ ,  $IC = 9$ , and  $CE = 17$   
 Find  $NI$ .

4.) E is the midpoint of  $GO$ .  
 Solve for  $x$ .



5.) Given that  $m \angle NAE = 100^\circ$ .

Find  $m \angle GAL$



6.) Write the converse and contrapositive.

If its winter, then the cold is coming.

Converse:

Contrapositive:

7.) E is between M and Y. T is between E and Y.  
 R is between T and Y.  
 $MY = 32$ ,  $ER = 8$ , and  $ET = TR = RY$ .  
 Find  $ME$ .

8.) Given that  $m \angle INE = 54$ .  
 Solve for  $m \angle AMT$ .

