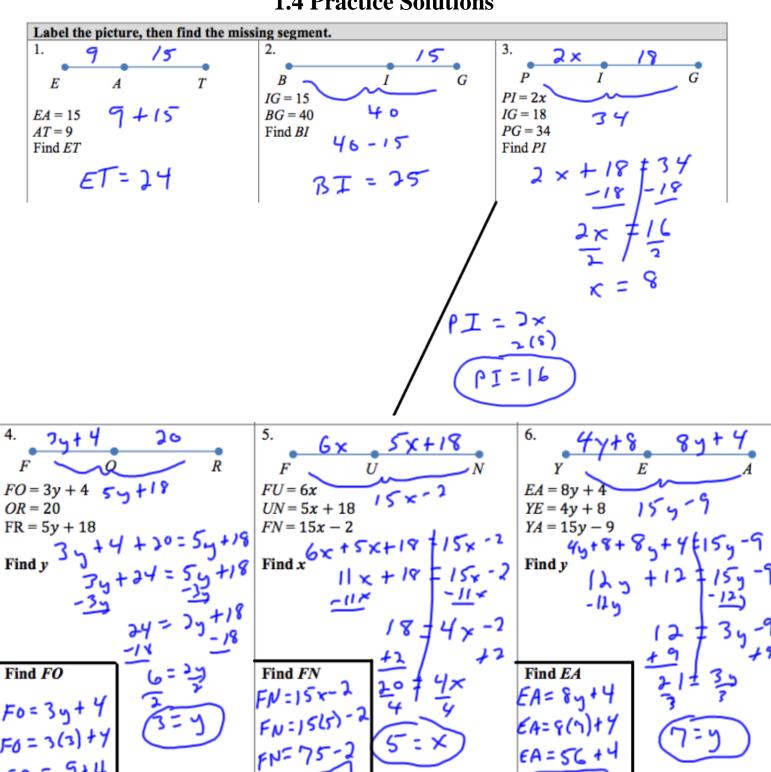
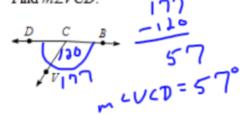
## **1.4 Practice Solutions**



## Use Angle Addition Postulate to answer the following.

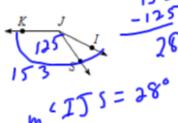
7.

 $m \angle BCV = 120^{\circ}$  and  $m \angle BCD = 177^{\circ}$ . Find  $m \angle VCD$ .



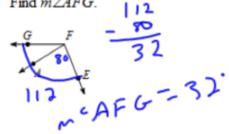
8.

Find  $m \angle IJS$  if  $m \angle IJK = 153^{\circ}$ and  $m \angle SJK = 125^{\circ}$ .



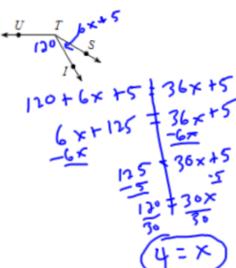
9.

 $m\angle EFG = 112^{\circ}$  and  $m\angle EFA = 80^{\circ}$ . Find  $m\angle AFG$ .



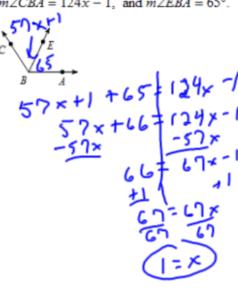
10.

 $m \angle ITU = 120^{\circ}$ ,  $m \angle STI = 6x + 5$ , and  $m \angle STU = 36x + 5$ . Find x.



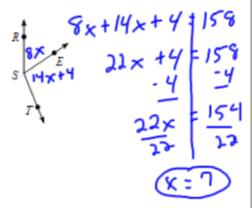
11.

Find x if  $m \angle CBE = 57x + 1$ ,  $m \angle CBA = 124x - 1$ , and  $m \angle EBA = 65^{\circ}$ .



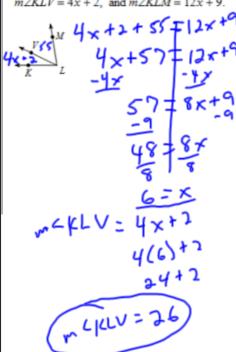
12.

 $m\angle RST = 158^{\circ}$ ,  $m\angle RSE = 8x$ , and  $m\angle EST = 14x + 4$ . Find x.



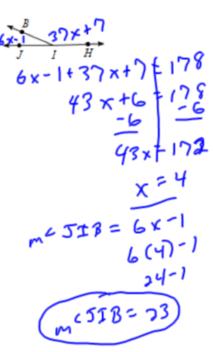
13.

Find  $m \angle KLV$  if  $m \angle VLM = 55^{\circ}$ ,  $m \angle KLV = 4x + 2$ , and  $m \angle KLM = 12x + 9$ .



14

Find  $m \angle JIB$  if  $m \angle BIH = 37x + 7$ ,  $m \angle JIH = 178^{\circ}$ , and  $m \angle JIB = 6x - 1$ .



15.

 $m \angle DEF = 66x$ ,  $m \angle DEZ = 22^{\circ}$ , and  $m \angle ZEF = 55x$ . Find  $m \angle ZEF$ .

