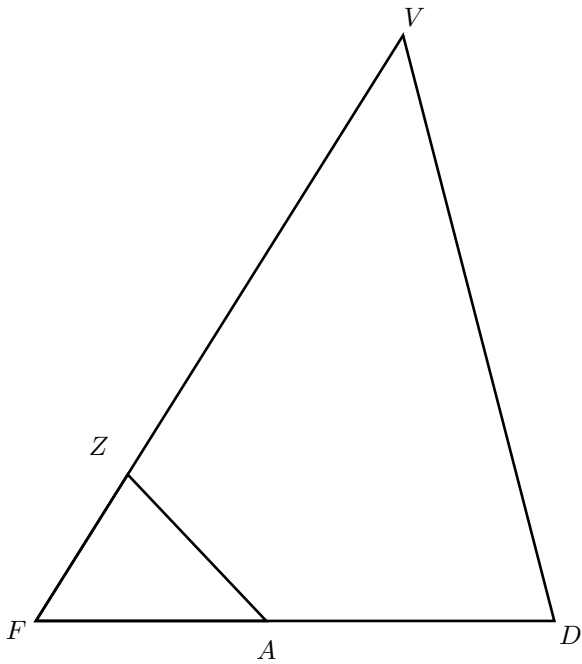
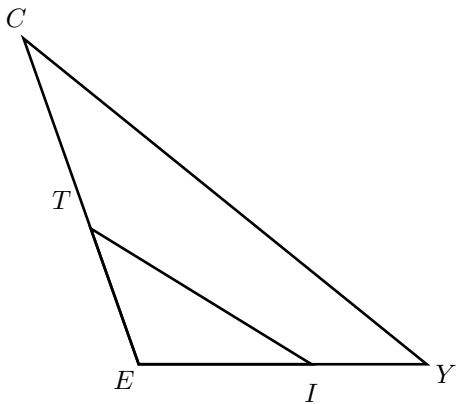


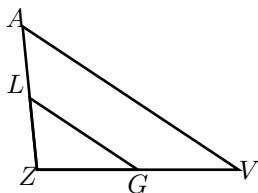
1. Given that  $\angle FAZ \cong \angle V$ ,  $FZ = 6$ ,  $FD = 18$ , and  $FA = 8$ , what is the length of  $FV$ ?



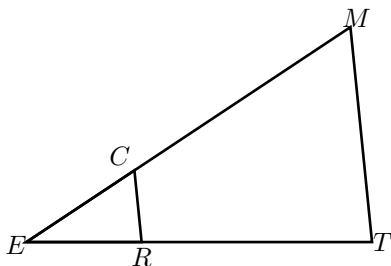
2. Given that  $\angle EIT \cong \angle C$ ,  $TI = 9$ ,  $YC = 18$ , and  $ET = 5$ , what is the length of  $EY$ ?



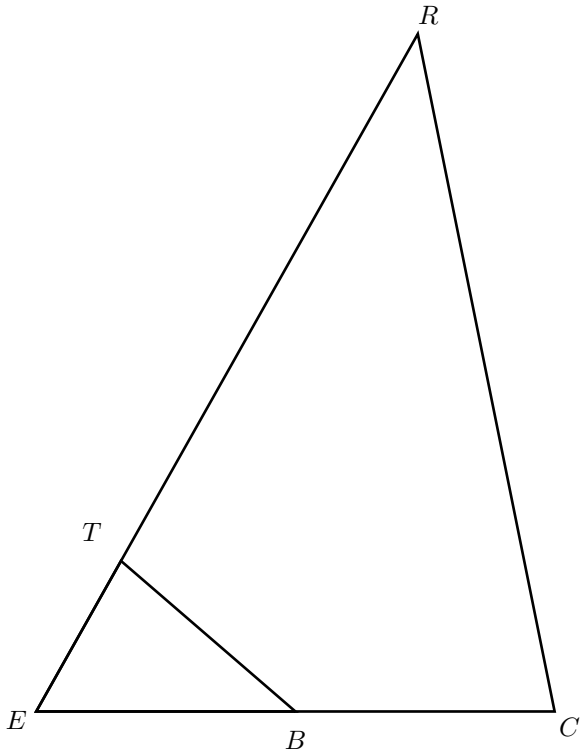
3. Given that  $\overline{LG} \parallel \overline{AV}$ ,  $ZG = 7$ ,  $ZV = 14$ , and  $ZL = 5$ , what is the length of  $ZA$ ?



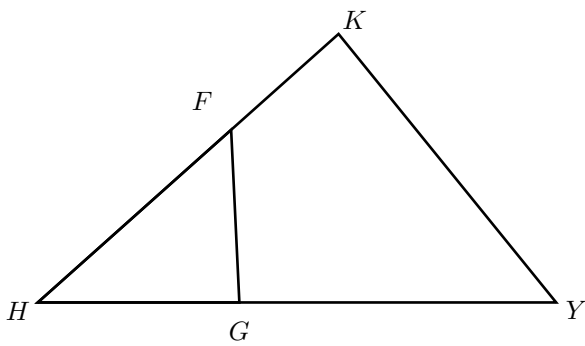
4. Given that  $\overline{CR} \parallel \overline{MT}$ ,  $ER = 8$ ,  $ET = 24$ , and  $EC = 9$ , what is the length of  $EM$ ?



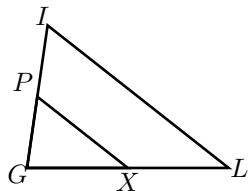
5. Given that  $\angle EBT \cong \angle R$ ,  $TR = 21$ ,  $ET = 6$ , and  $EC = 18$ , what is the length of  $EB$ ?



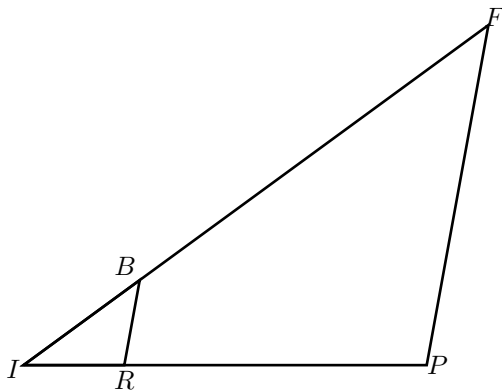
6. Given that  $\angle HGF \cong \angle K$ ,  $HK = 14$ ,  $HF = 9$ , and  $HY = 18$ , what is the length of  $GY$ ?



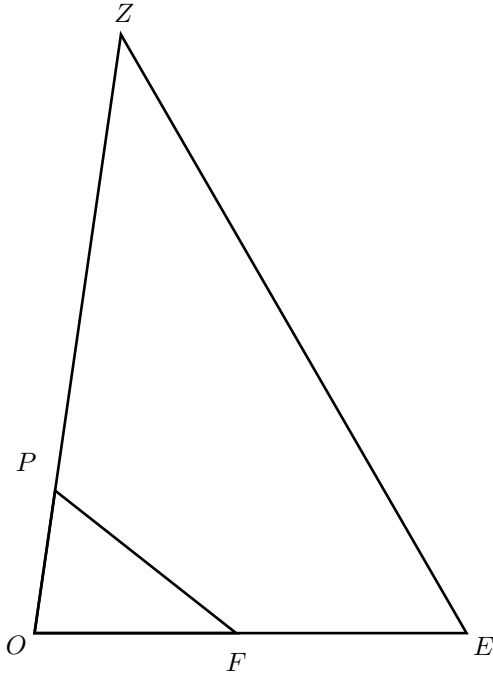
7. Given that  $\overline{PX} \parallel \overline{IL}$ ,  $PI = 5$ ,  $GI = 10$ , and  $PX = 8$ , what is the length of  $IL$ ?



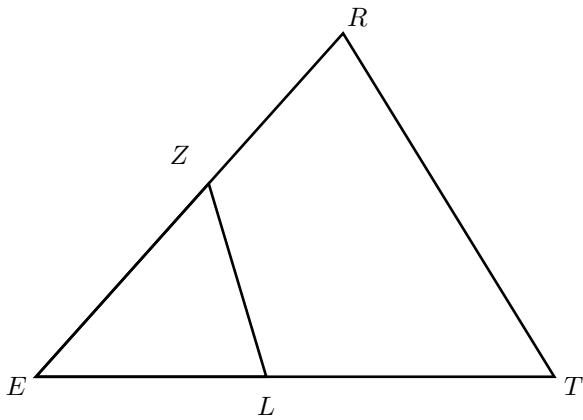
8. Given that  $\overline{BR} \parallel \overline{FP}$ ,  $BF = 30$ ,  $IB = 10$ , and  $IP = 28$ , what is the length of  $IR$ ?



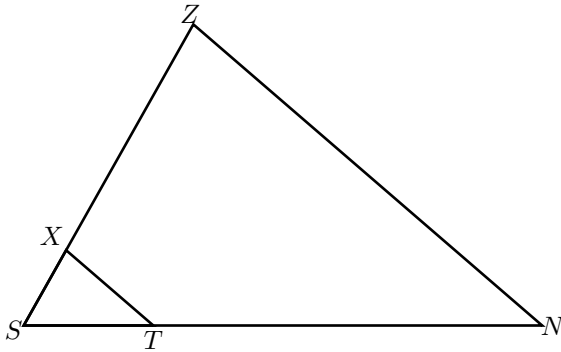
9. Given that  $\angle OFP \cong \angle Z$ ,  $OZ = 21$ ,  $PZ = 16$ , and  $FE = 8$ , what is the length of OE?



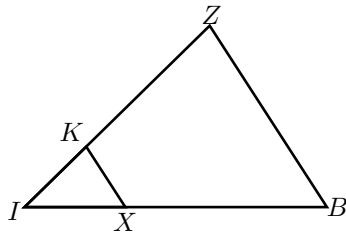
10. Given that  $\angle ELZ \cong \angle R$ ,  $EZ = 9$ ,  $ER = 16$ , and  $LT = 10$ , what is the length of ET?



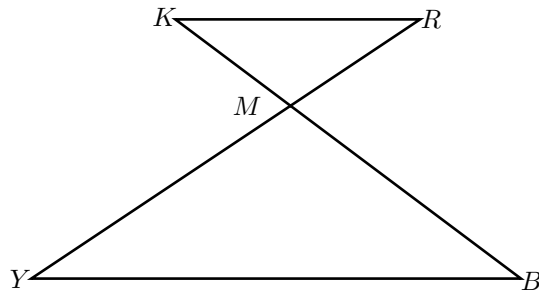
11. Given that  $\overline{XT} \parallel \overline{ZN}$ ,  $XT = 8$ ,  $ZN = 32$ , and  $TN = 27$ , what is the length of  $ST$ ?



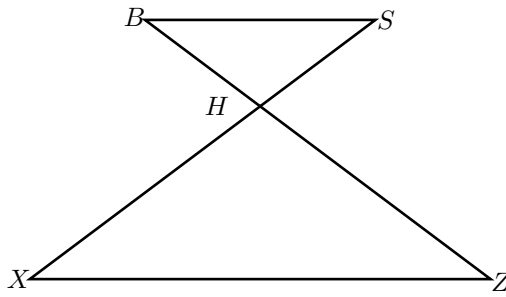
12. Given that  $\overline{KX} \parallel \overline{ZB}$ ,  $KX = 5$ ,  $ZB = 15$ , and  $XB = 14$ , what is the length of  $IB$ ?



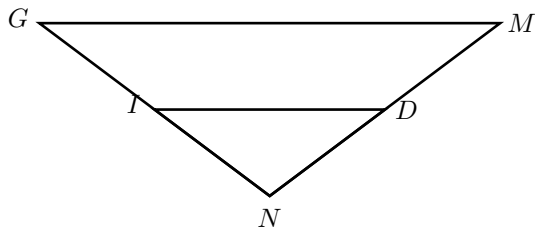
13. Given  $\angle MKR \cong \angle B$ , prove the two triangles are similar.



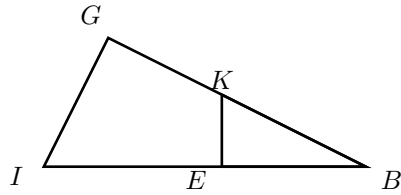
14. Given that  $\overline{BS} \parallel \overline{ZX}$ , prove the two triangles are similar.



15. Given that  $\overline{ID} \parallel \overline{GM}$ , prove the two triangles are similar.



16. Given that  $\angle EKB \cong \angle I$ , prove that the two triangles are similar.





Name: \_\_\_\_\_ CLASS WORK

6.7 - sideSplitter and sideSpinner - CWAnswers

#: \_\_\_\_\_

1.  $FV = 24$
2.  $EY = 10$
3.  $ZA = 10$
4.  $EM = 27$
5.  $EB = 9$
6.  $GY = 11$
7.  $IL = 16$
8.  $IR = 7$
9.  $OE = 15$
10.  $ET = 18$
11.  $ST = 9$
12.  $IB = 21$
13.  $\triangle KMR \sim \triangle BXY$
14.  $\triangle BHS \sim \triangle ZCX$
15.  $\triangle IND \sim \triangle GCM$
16.  $\triangle KEB \sim \triangle IGM$