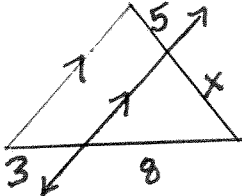
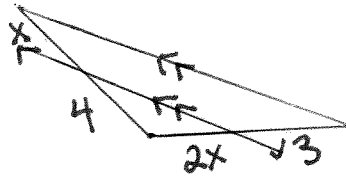


1. Show algebraically that if  $\frac{d}{e} = \frac{w}{z}$  then  $\frac{d-e}{e} = \frac{w-z}{z}$ .

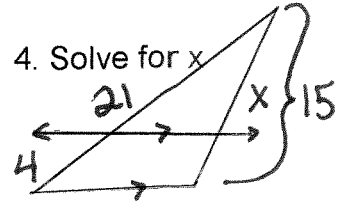
2. Solve for x



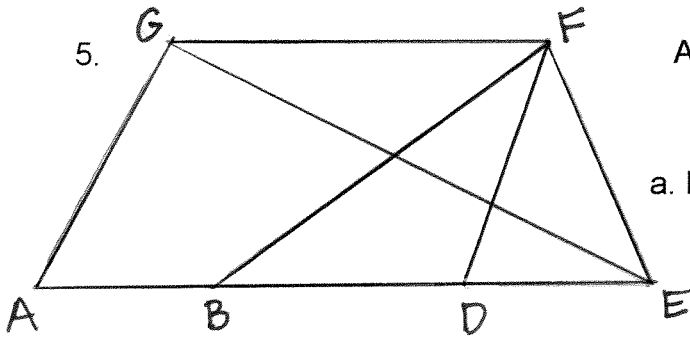
3. Solve for x



4. Solve for x



5.

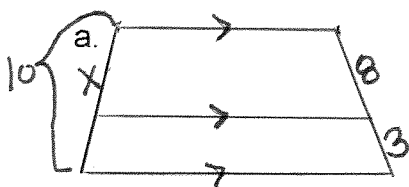


ADFG is a parallelogram.  $BD=2(AB)=2(DE)$ .

$\alpha = \text{area}$

- a. Find  $\frac{\alpha_{ADFG}}{\alpha_{\triangle BDF}}$    b. Find  $\frac{\alpha_{\triangle DFE}}{\alpha_{AEFG}}$    c. Find  $\frac{\alpha_{ABFG}}{\alpha_{\triangle EFG}}$

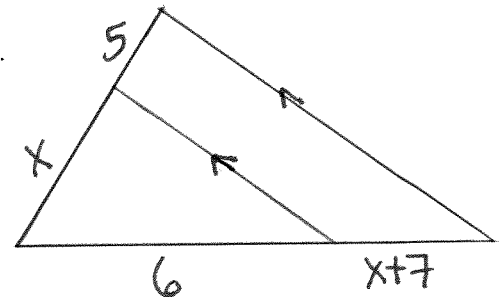
6. Solve for x:



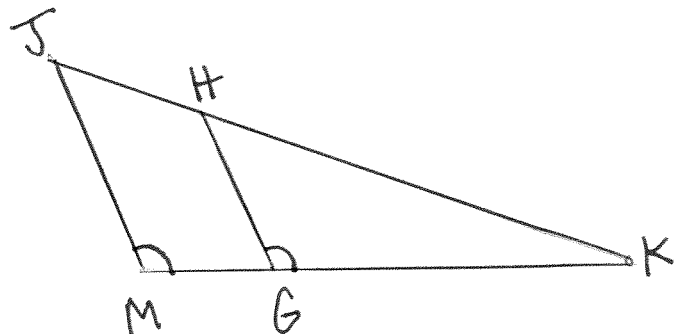
b.  $\frac{x}{5} = \frac{2}{x-3}$

c.  $\frac{x}{5} = \frac{2}{x+2}$

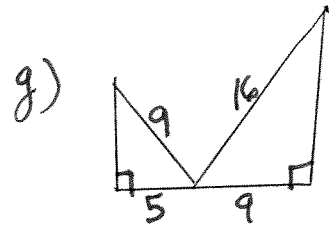
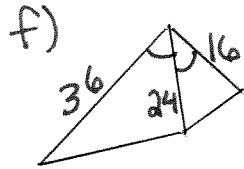
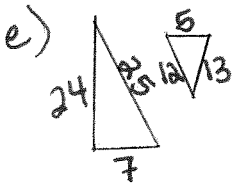
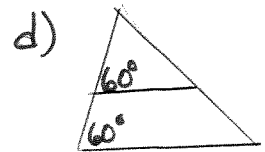
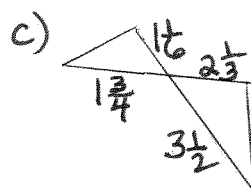
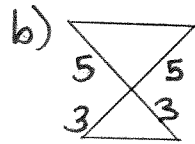
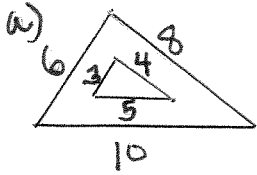
d.



- 7.
- Find MG if  $JH=7$ ,  $JK=21$ ,  $GK=10$
  - Find GK if  $HK=MG$ ,  $MK=6$ ,  $JH=8$
  - Find JK if  $GK=7$ ,  $HK=2(MG)$ ,  $JH=14$
  - Find MK if  $KJ=24$ ,  $HK=MK$ ,  $KG=4$



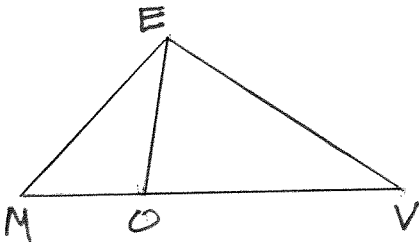
8. Determine if in each case the 2 triangles are similar, if so state why.



9. The area of two similar triangles are 144 and 81. If the base of the larger triangle is 30, what is the base of the smaller triangle?

10. Given:  $\triangle EOM \sim \triangle MEV$

Prove:  $\triangle EOM$  is isosceles



11. Given:  $\overline{LV}$  bisects  $\angle OLE$   
 $LR = RV$

Prove:  $(LR) \times (OE) = (LE) \times (OV)$

