

Similar Triangles

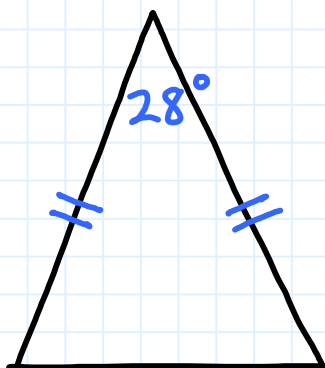
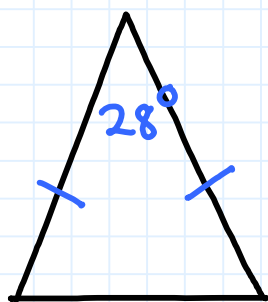
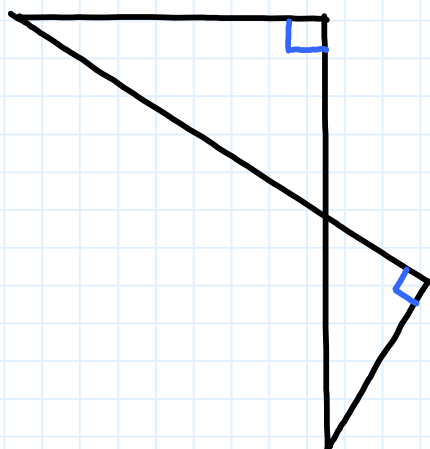


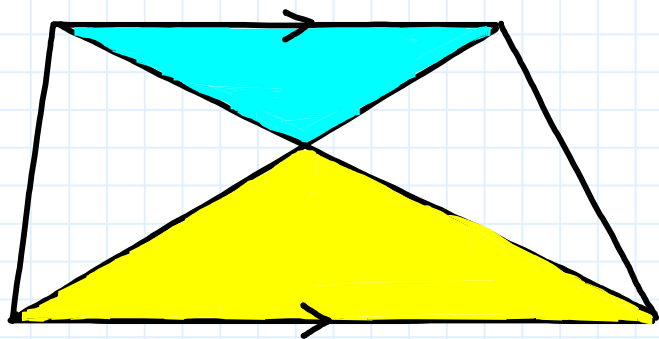
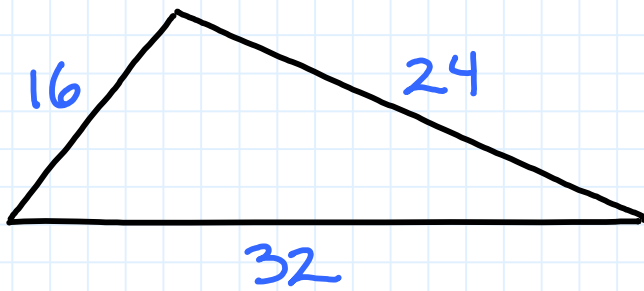
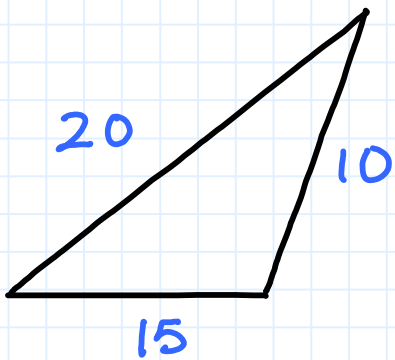
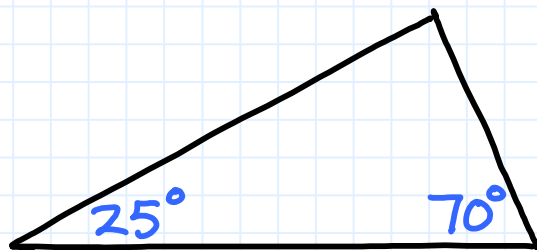
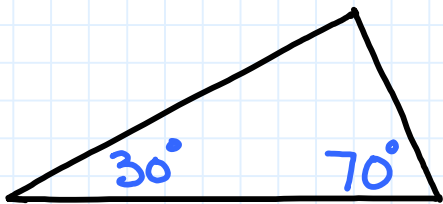
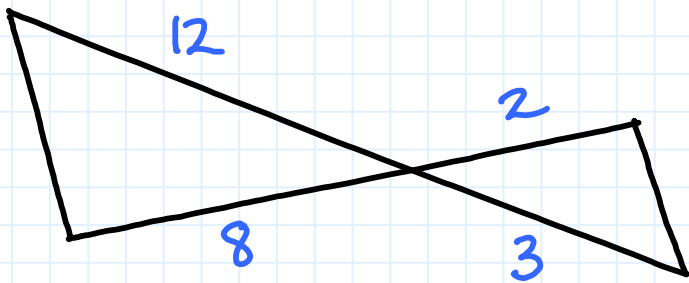
Overview of problems



Example Set: A

Determine if the triangles are similar; if they are similar justify your conclusion by a postulate or theorem.

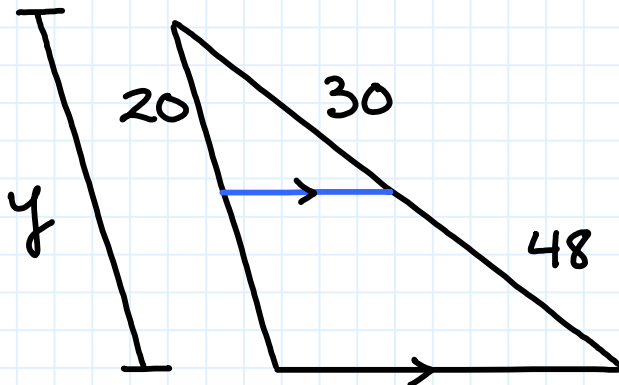
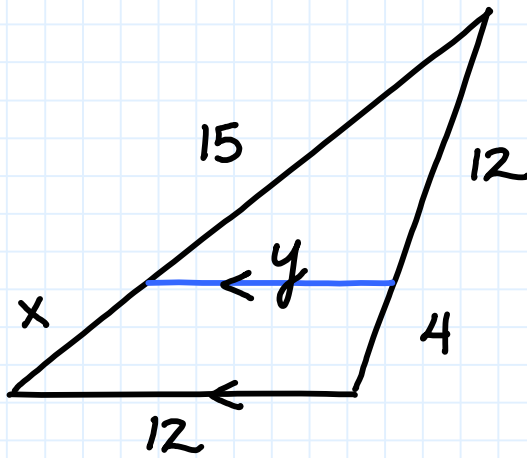
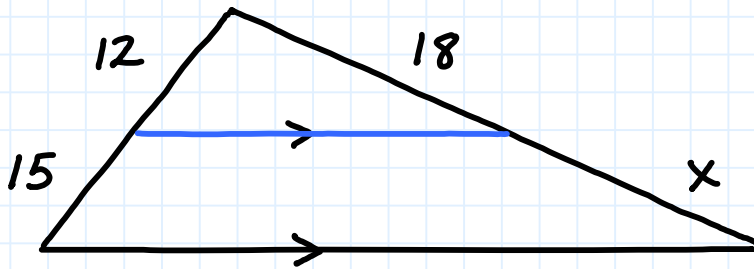






Example Set: B

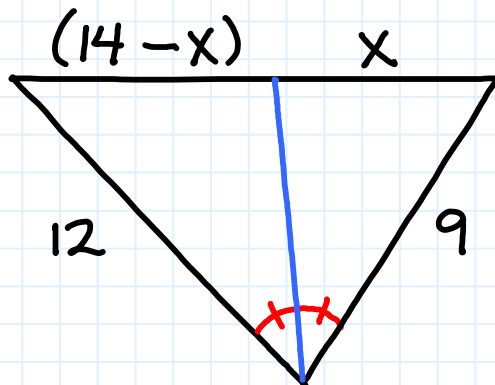
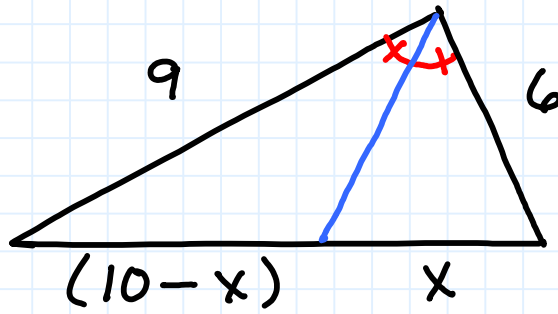
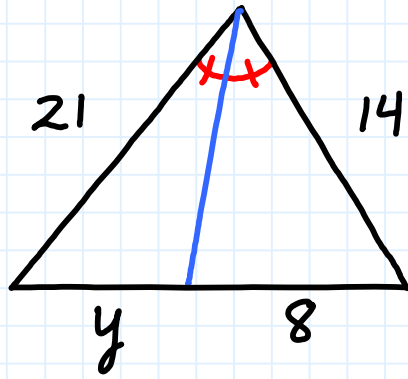
Find the values of the variable.





Example Set: C

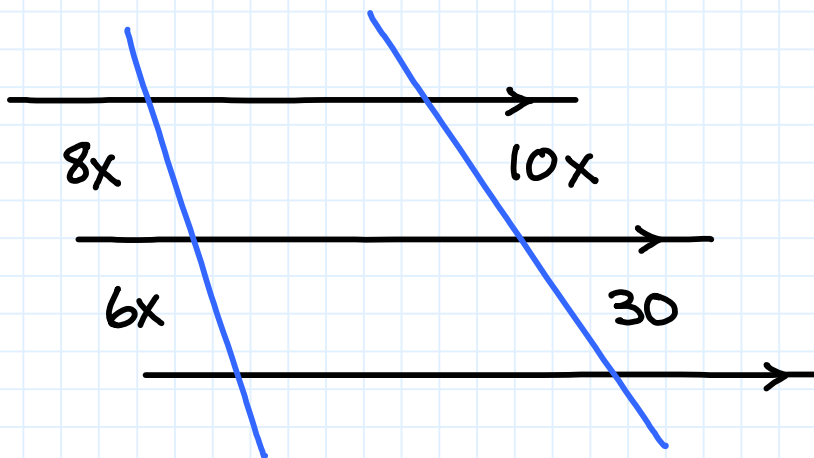
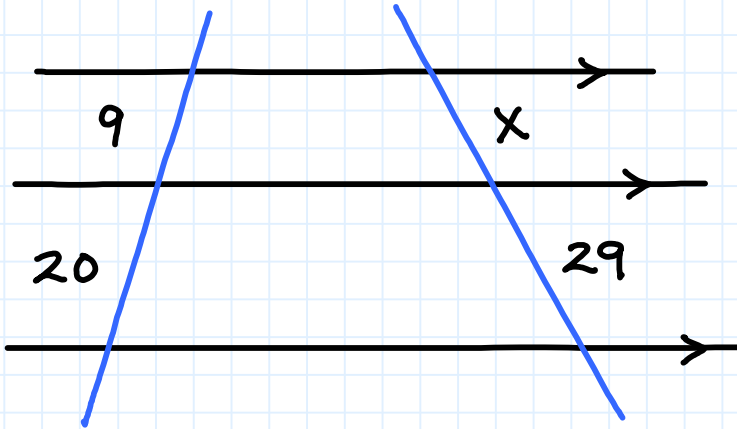
Find the value of the variable.





Example Set: D

Find the value of the variable.



Similar Triangles

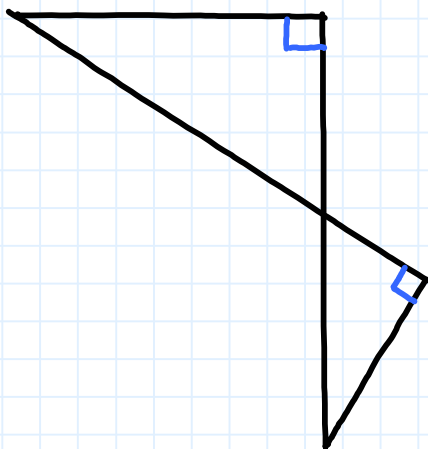


Overview of problems- KEY

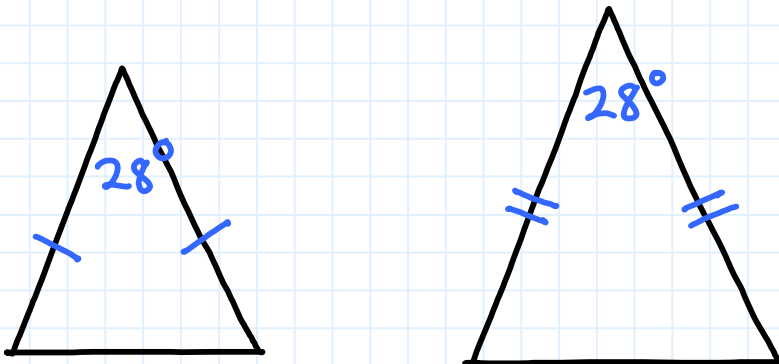


Example Set: A

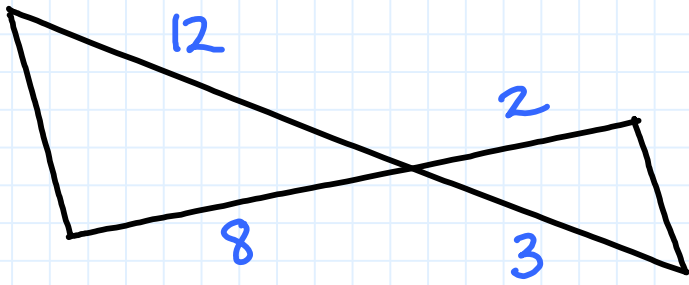
Determine if the triangles are similar; if they are similar justify your conclusion by a postulate or theorem.



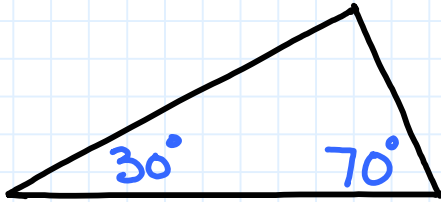
yes, AA Sim. Post.



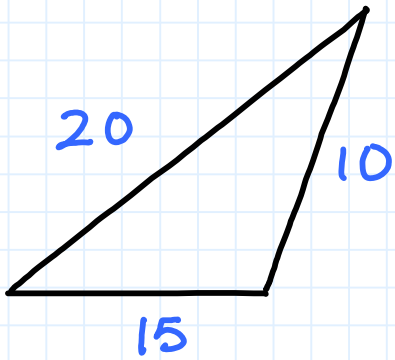
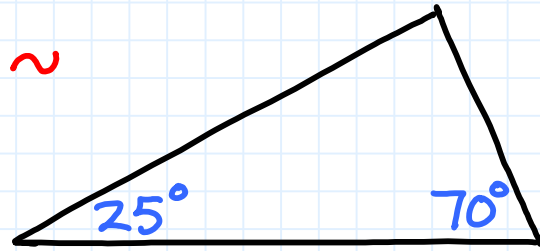
yes, AA Sim. Post.



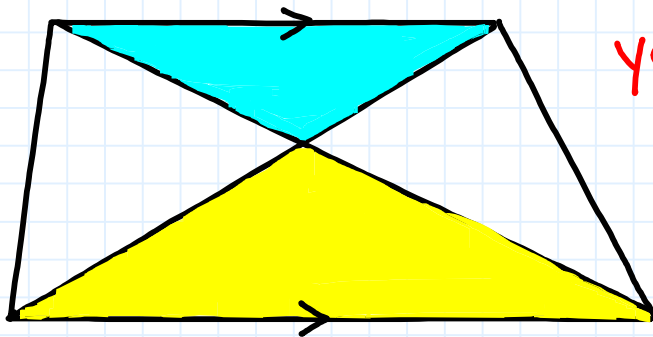
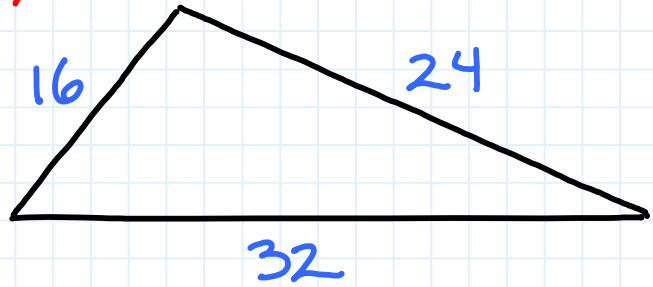
yes, SAS Thm.



NOT \sim



yes, SSS Thm.

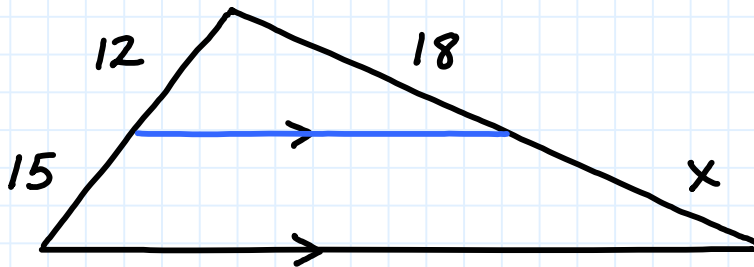


yes, AA Sim. Post.

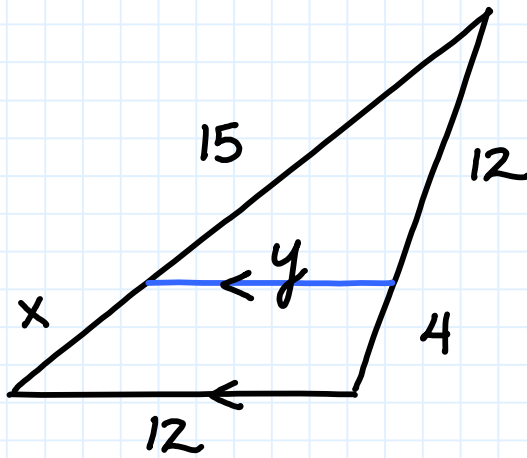


Example Set: B

Find the values of the variable.

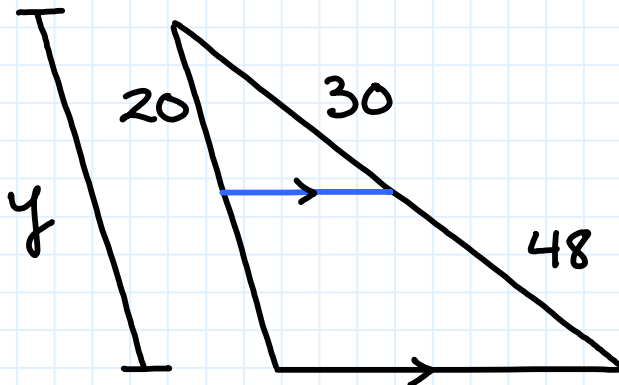


$$x = 22.5$$



$$x = 5$$

$$y = 9$$

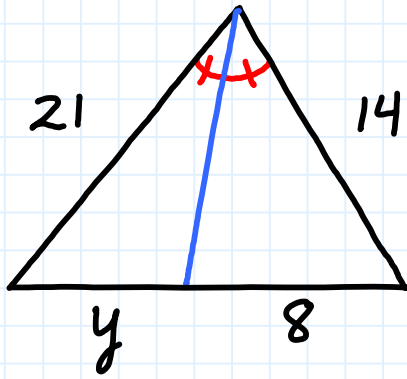


$$y = 52$$

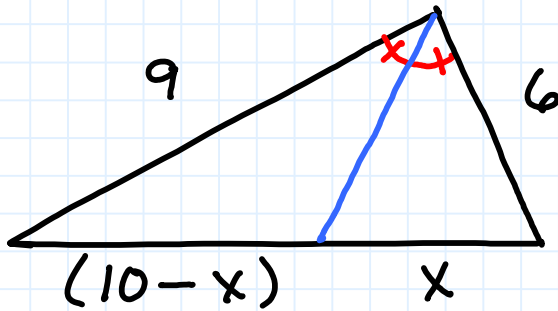


Example Set: C

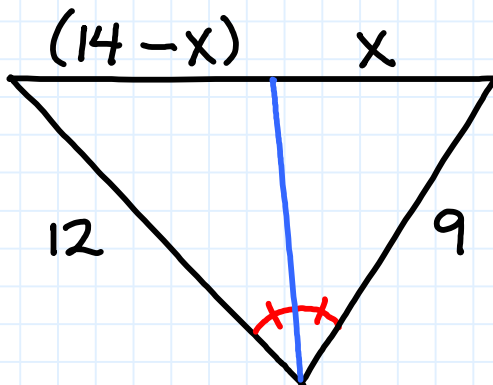
Find the value of the variable.



$$y = 12$$



$$x = 4$$

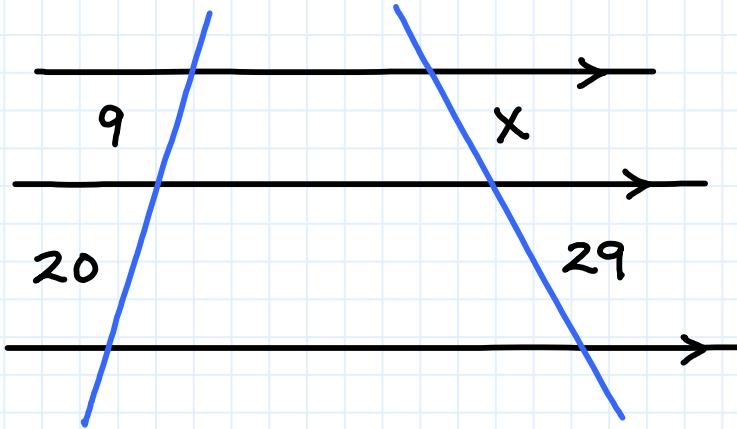


$$x = 6$$

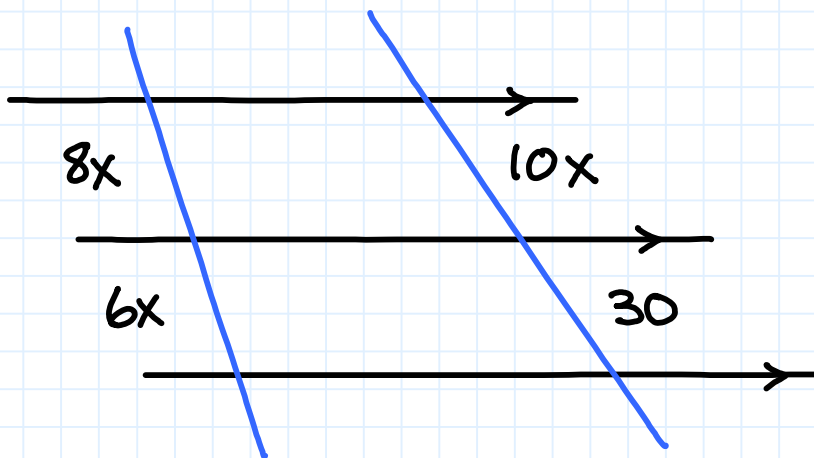


Example Set: D

Find the value of the variable.



$$x = 13.05$$



$$x = 4$$