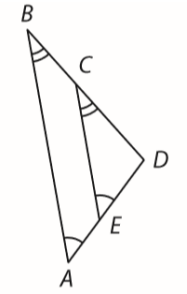
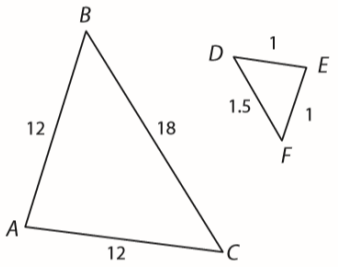
GSE Geometry Similarity Review Name: _____ Block: __

Decide whether each pair of triangles is similar. Explain your answer. (AA, SAS, SSS)

1.



2.



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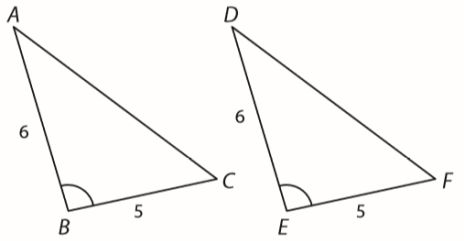
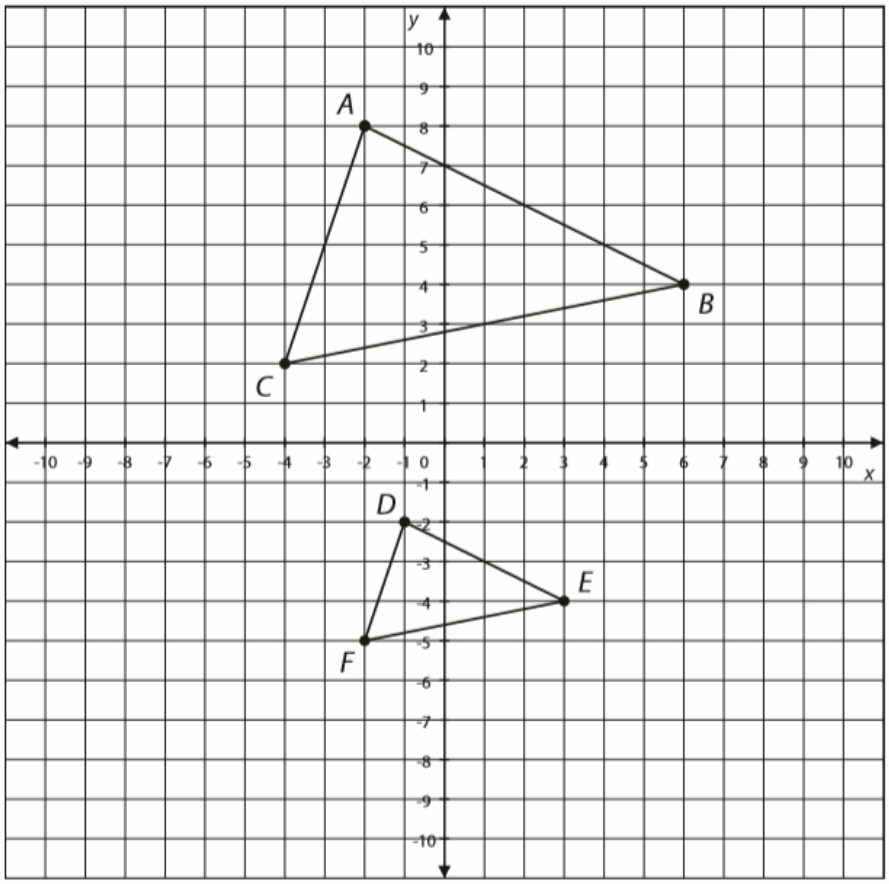




4. Find the length of each side.

$\overline{AB} =$ ___
$\overline{BC} =$ ___
$\overline{AC} =$ ___

$\overline{DE} =$ ___
$\overline{EF} =$ ___
$\overline{DF} =$ ___

Determine whether the scale factors are the same for each.

$\frac{AB}{DE} =$ ___

$\frac{BC}{EF} =$ ___

$\frac{AC}{DF} =$ ___

Are the two triangles similar?
Yes or No

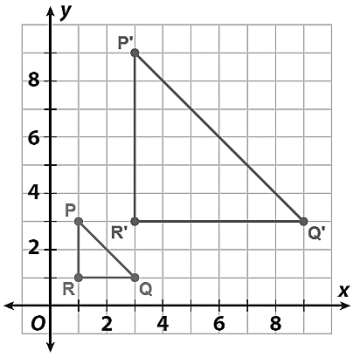
5. ΔFGH has vertices $F(4,-6)$, $G(8,-6)$, and $H(6,-2)$. If ΔFGH is dilated through the origin with a scale factor of $\frac{1}{2}$, what are the vertices of $\Delta F'G'H'$?

$F'(\quad,\quad)$
$G'(\quad,\quad)$
$H(\quad,\quad)$

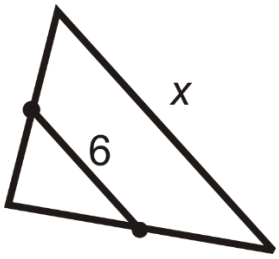
6. $\overline{AB}$ is 8 units long. If $\overline{AB}$ is dilated by a scale factor of $k = 10$, what is the length of $\overline{A'B'}$?

$\overline{A'B'} =$ ___

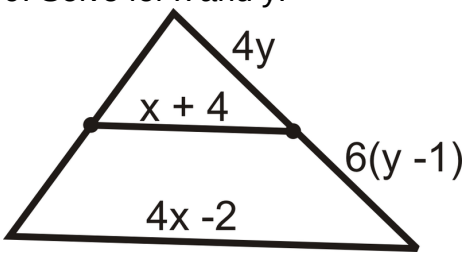
7. Find the scale factor of the given dilation and determine if an enlargement or reduction occurred.



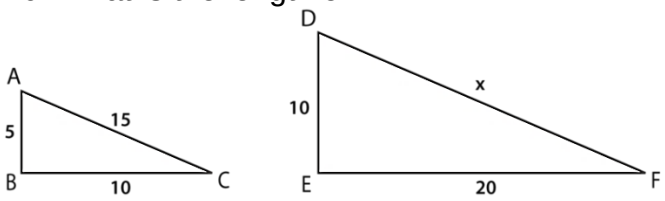
8. Find x.



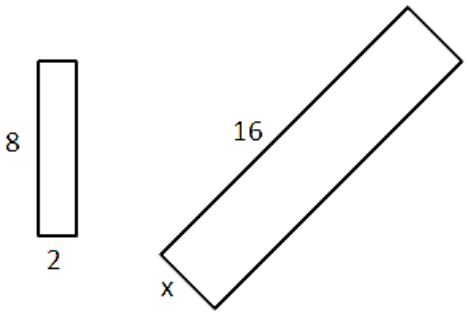
9. Solve for x and y.



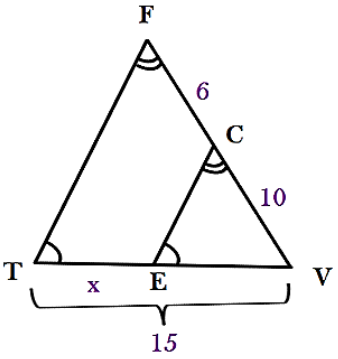
10. What is the length of $\overline{DF}$?



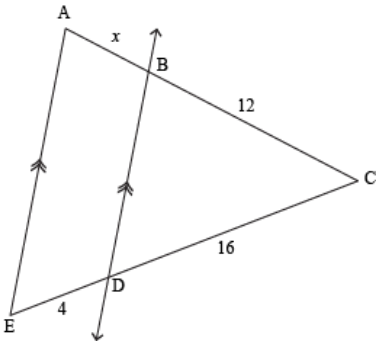
11. Find the value of x.



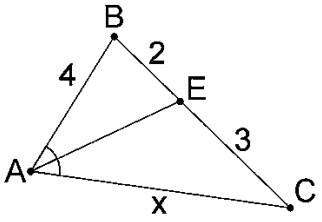
12. Solve for $\overline{TE}$.



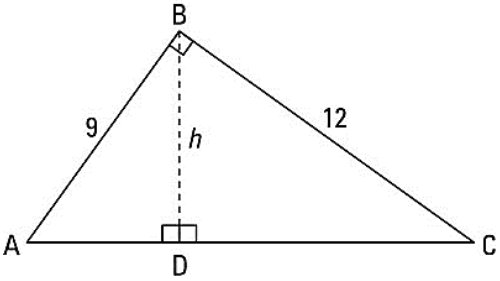
13. Find $\overline{AB}$.



14. Find x.



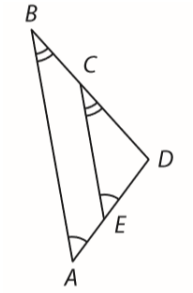
15. Find h.



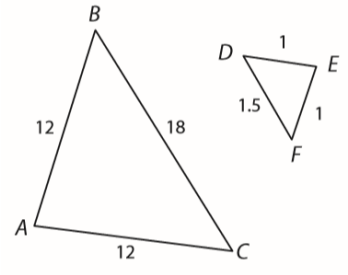
GSE Geometry Similarity Review Name: _____ Block: __

Decide whether each pair of triangles are similar. Explain your answer. (AA, SAS, SSS, NEI, not ~)

1.



2.



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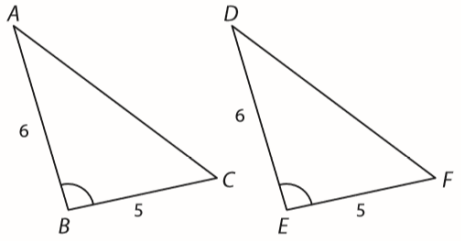
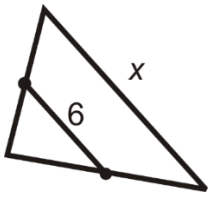
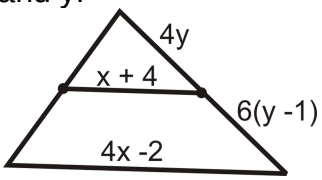


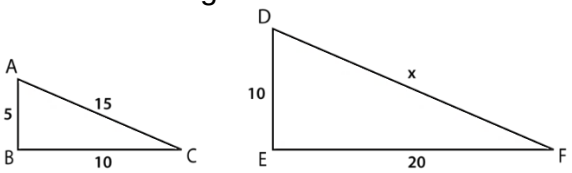
4. Find x.



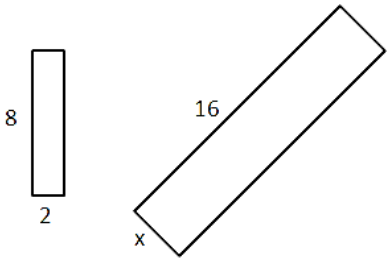
5. Solve for x and y.



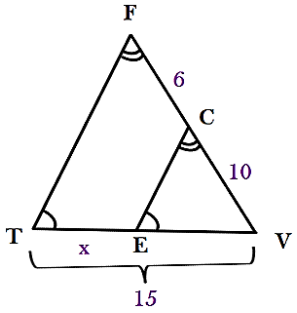
6. What is the length of $\overline{DF}$?



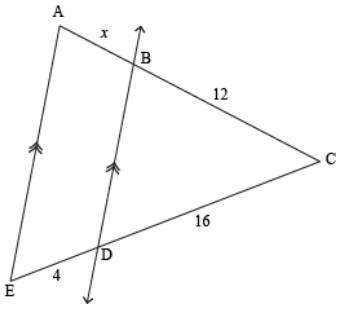
7. Find the value of x.



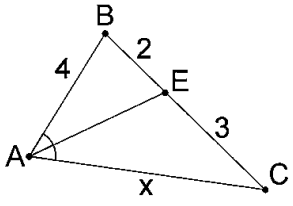
8. Solve for $\overline{TE}$.



9. Find $\overline{AB}$.



10. Find x.



11. Find h.