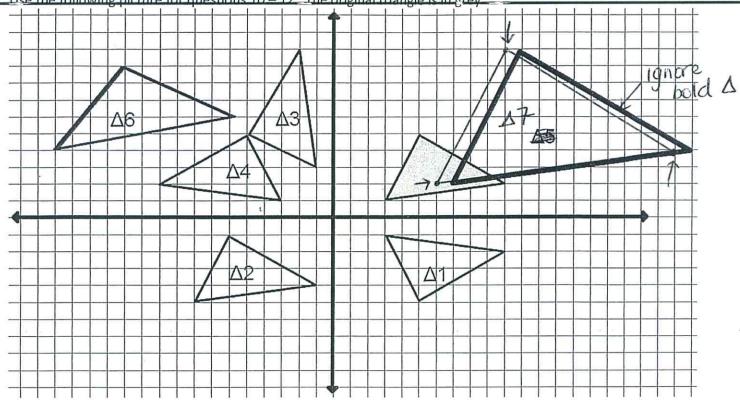
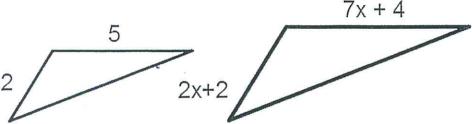
Use the following picture for questions 10-12. The original triangle is in grey.



10. For each of the triangles, describe the transformation and then write a general rule for the transformation shown.

Triangle Number	Describe Transformations	Write a Rule		
Δ1		(x, y) →(,)
Δ2		(x, y) →(i)
Δ3		(x, y) →(,)
Δ4		(x, y) →(,)
AS DT		(x, y) →(,)
<u>A6</u>		(x, y) →(,)

- 11. Which of the triangles are congruent to the original? _____
- 12. Which of the triangles are similar to the original?
- 13. Use the following picture to solve for the scale factor for the larger triangle to the smaller triangle. (Treat as dula how)



14. A 5'6" man casts a shadow that is 12 feet long. What is the height of a tree that casts a 20 foot shadow?

(Treat as diation)