GEOMETRY FINAL EXAM REVIEW 2017

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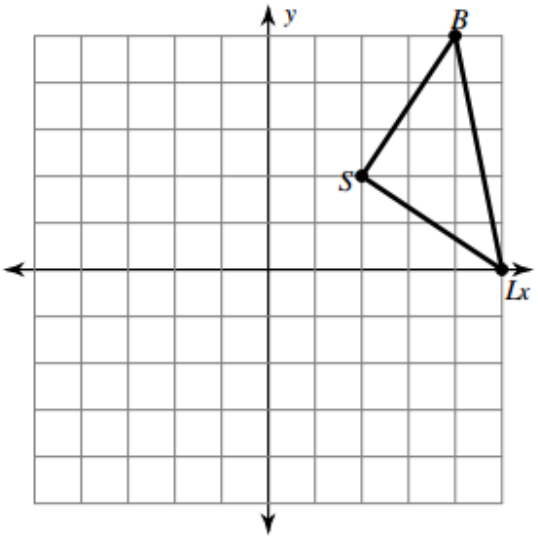
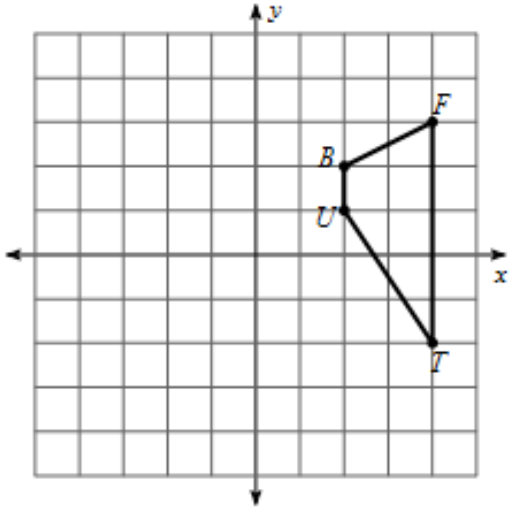
Translate the figure 4 units to the left and 2 units down.



Write this rule algebraically.

Find the coordinates of the vertices after the given transformation

translation: $(x, y) \rightarrow (x-4, y+2)$



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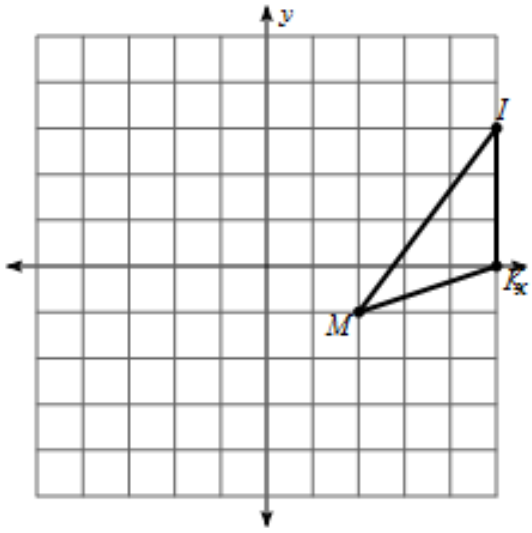
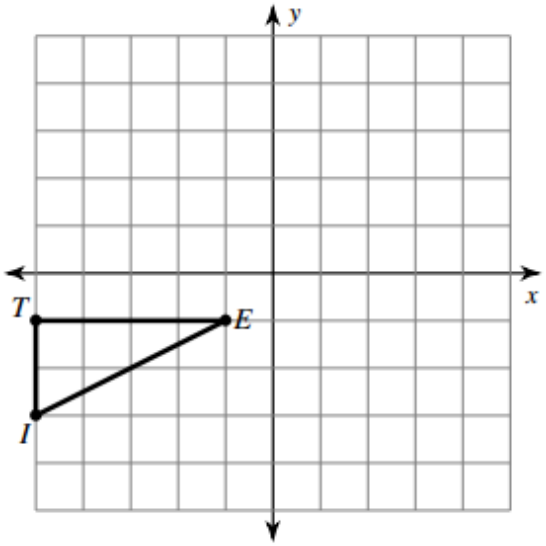
Reflect over the y-axis



Reflect over the x-axis



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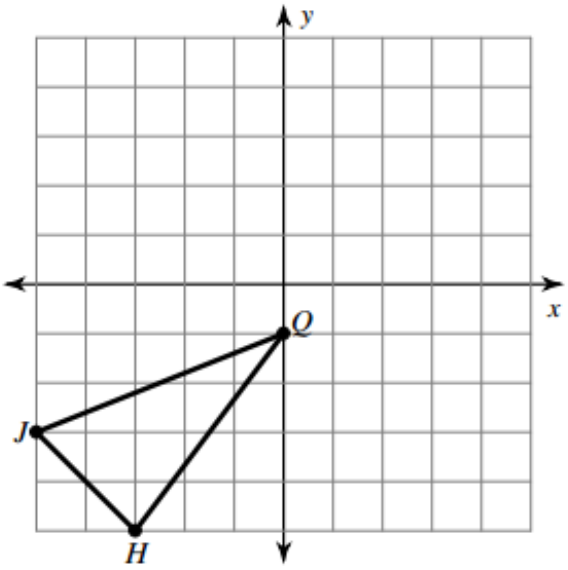
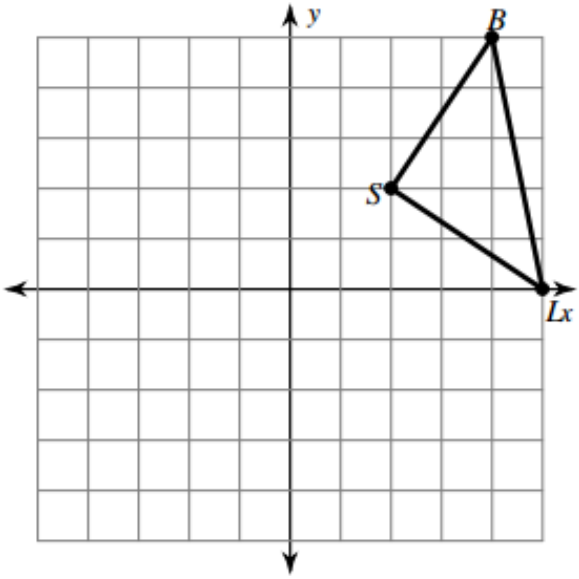
Rotate 180° clockwise.



Rotate 90° clockwise.



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$\angle 1 = 130^{o}$

$\angle 2$=_____ because it is _____ with $\angle 1$

$\angle 3$=_____ because it is _____ with $\angle 2$

$\angle 4$=_____ because it is _____ with $\angle 3$

$\angle 5$=_____ because it is _____ with $\angle 4$

$\angle 6$=_____ because it is _____ with $\angle 5$

$\angle 7$=_____ because it is _____ with $\angle 6$

$\angle 8$=_____ because it is _____ with $\angle 7$

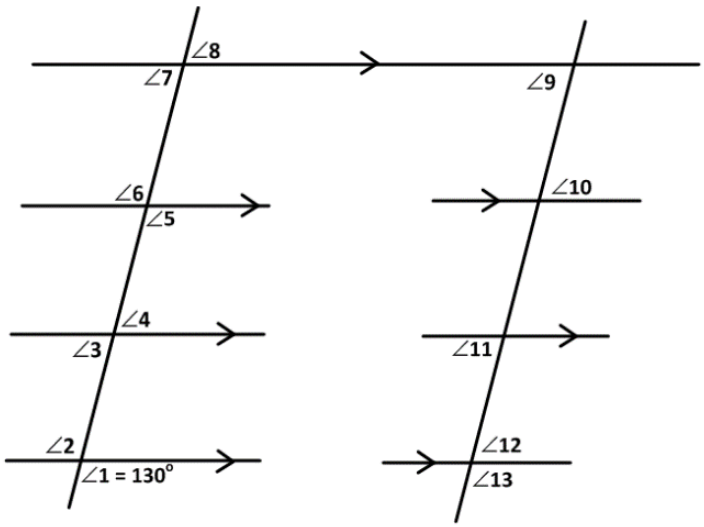
$\angle 9$=_____ because it is _____ with $\angle 8$

$\angle 10$=_____ because it is _____ with $\angle 9$

$\angle 11$=_____ because it is _____ with $\angle 10$

$\angle 12$=_____ because it is _____ with $\angle 11$

$\angle 13$=_____ because it is _____ with $\angle 12$



∠1 = 128°

∠2 = ____ **because** it is _____ with ∠1

∠3 = ____ **because** it is _____ with ∠2

∠4 = ____ **because** it is _____ with ∠3

∠5 = ____ **because** it is _____ with ∠4

∠6 = ____ **because** it is _____ with ∠5

∠7 = ____ **because** it is _____ with ∠6

∠8 = ____ **because** it is _____ with ∠7

∠9 = ____ **because** it is _____ with ∠8

∠10 = ____ **because** it is _____ with ∠9

∠11 = ____ **because** it is _____ with ∠10

∠12 = ____ **because** it is _____ with ∠11

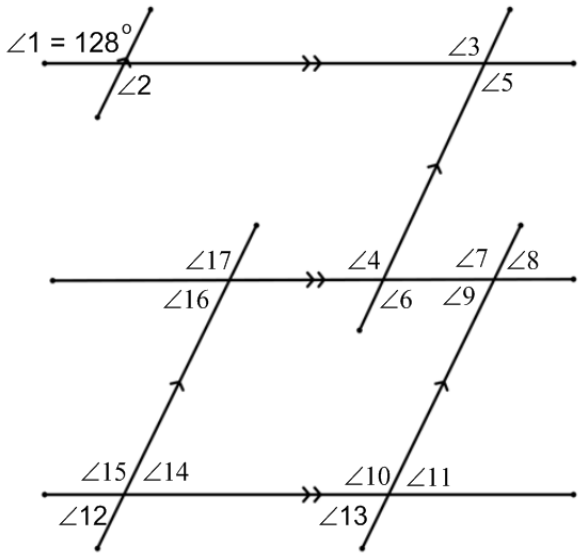
∠13 = ____ **because** it is _____ with ∠12

∠14 = ____ **because** it is _____ with ∠13

∠15 = ____ **because** it is _____ with ∠14

∠16 = ____ **because** it is _____ with ∠15

∠17 = ____ **because** it is _____ with ∠16



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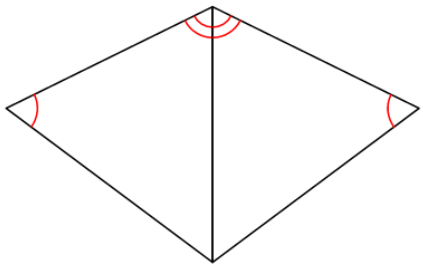
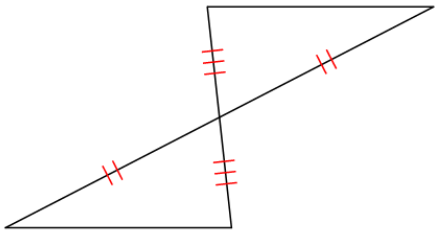
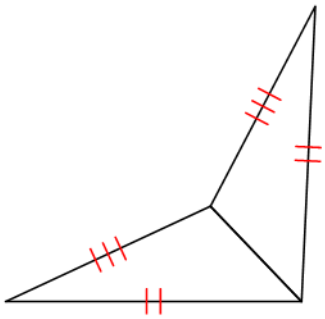
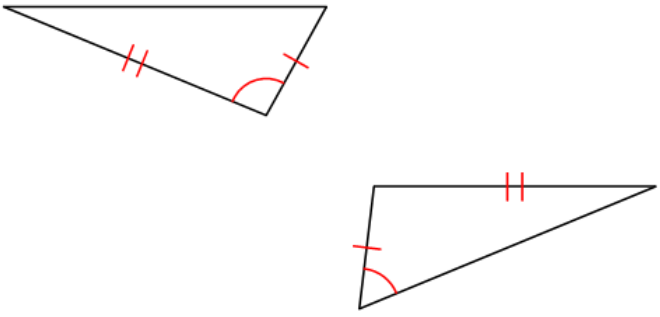
State if the two triangles are congruent. If they are, state how you know.



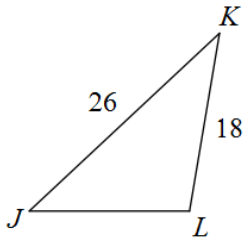


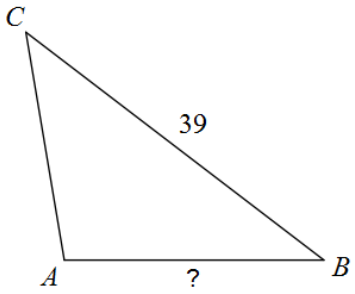




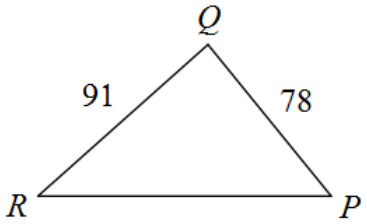
□

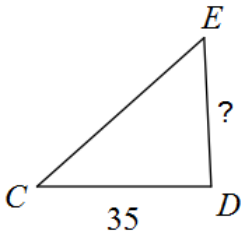
The triangles below are similar.
Find the missing length.



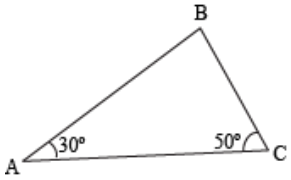


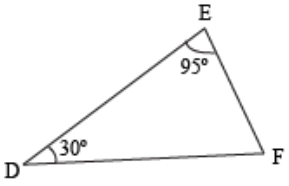
The triangles below are similar.
Find the missing length.



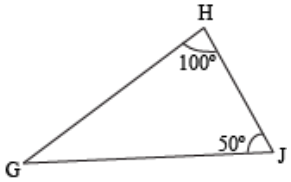


Which of the other triangles is similar to ΔABC and why?

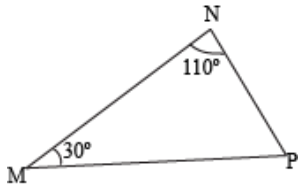




b)

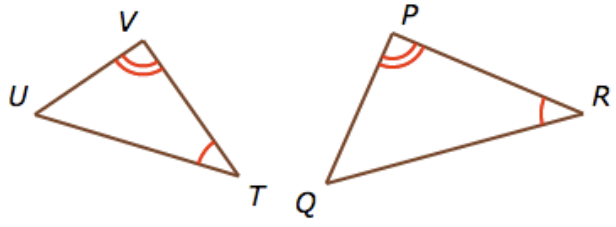


c)



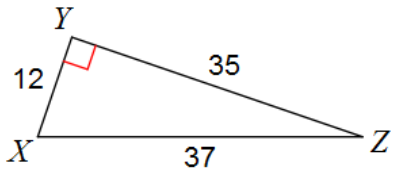
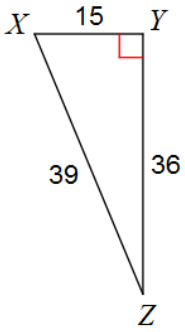
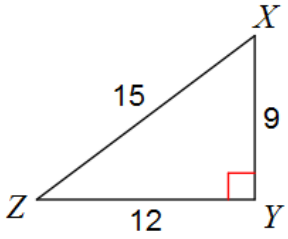
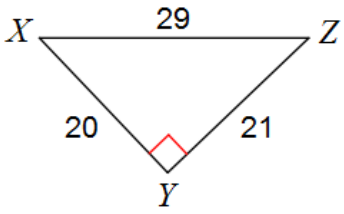
□

Are these triangles similar?



How do you know?

□

Find $\sin(X)$ 	Find $\tan(Z)$ 
Find $\cos(Z)$ 	Find $\sin(Z)$ 

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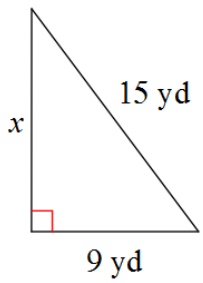
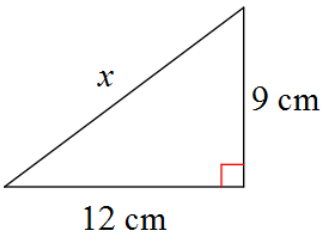
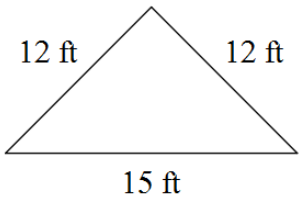
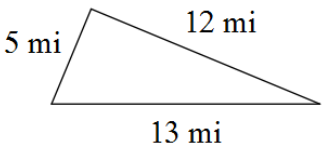
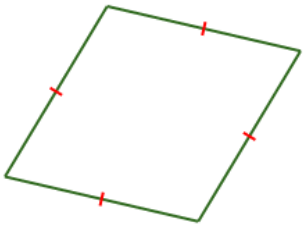
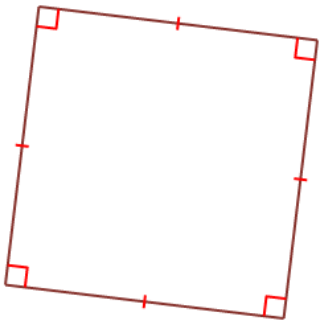
Use the Pythagorean theorem to find the missing side. 	Use the Pythagorean theorem to find the missing side. 
Use the Pythagorean theorem to determine if the triangle is a right triangle. 	Use the Pythagorean theorem to determine if the triangle is a right triangle. 

Which terms describe this polygon? Choose all that apply.



- [x] isosceles trapezoid
- [ ] rhombus
- [ ] quadrilateral
- [ ] square

Which terms describe this polygon? Choose all that apply.



- [x] rhombus
- [ ] parallelogram
- [ ] trapezoid
- [ ] square
- [ ] rectangle

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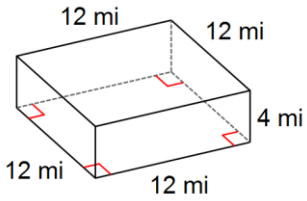

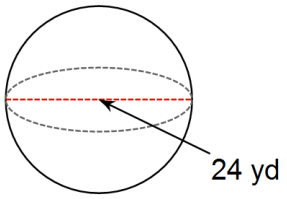

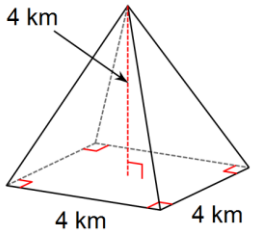

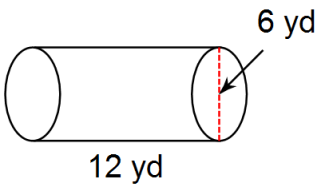

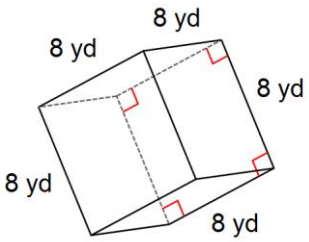

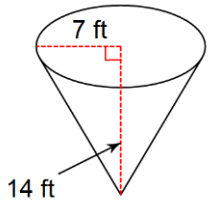

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Label each figure with the part of a circle it is showing.
(sector, arc, center, diameter, radius, chord, center, central angle)