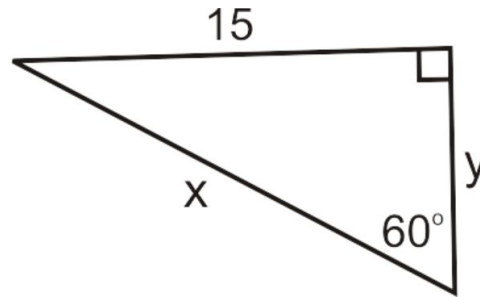
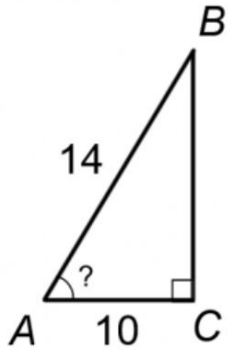


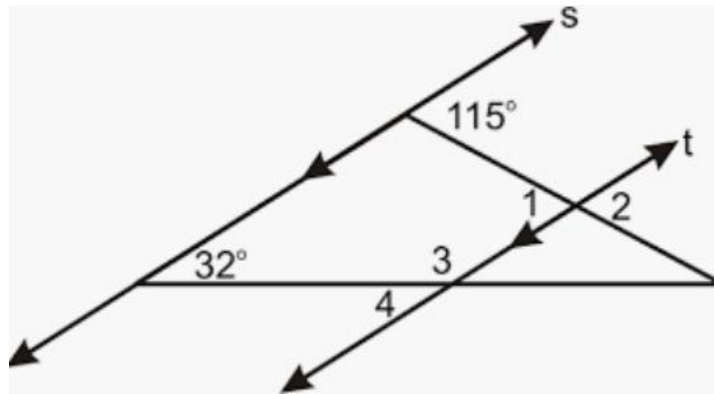
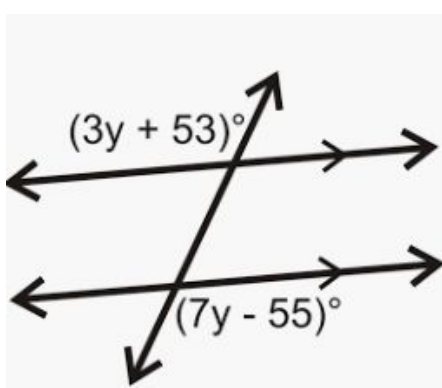
Name: _____ Period: _____ Date of Final: _____

Geometry Final Exam Practice Problems 3

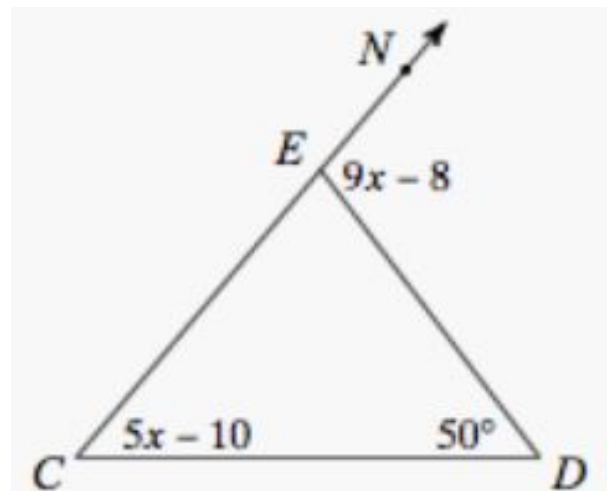
- Convert the angle measure to degrees $7\pi/10$.
- Find the equation of a circle with diameter length 10 units and the center at the point (2, -3).
- Find the measure of angle A in the triangle below.



- Find the lengths of x and y in the triangle above and to the the right.
- Find the possible lengths of the third side of a triangle with side lengths 6 cm and 13 cm.
- Translate the point A (0, 5) with the rule $(x, y) \rightarrow (x - 4, y + 3)$, then rotate A' 270° counterclockwise. What are the coordinates of A''?
- Find the missing angles.

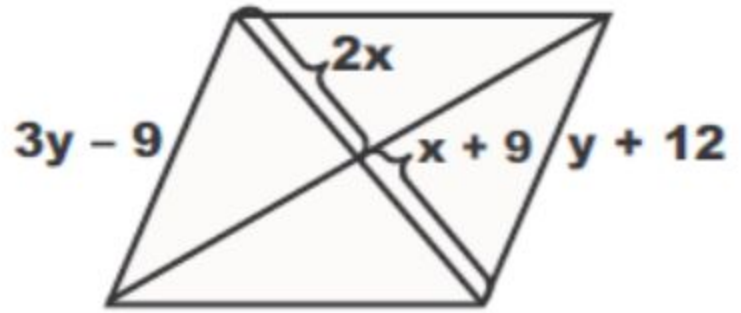
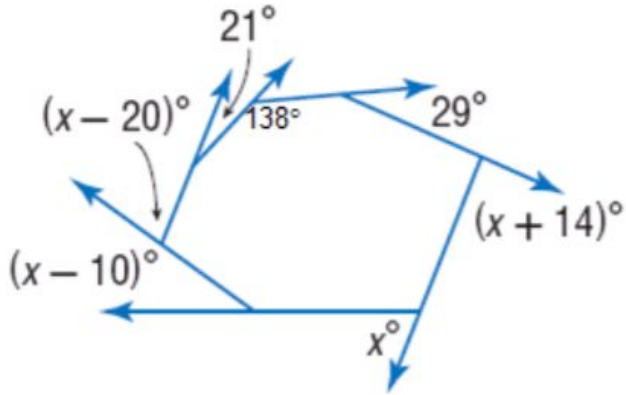


- A square has a perimeter 8 cm. What happens to the perimeter when you double each side? What happens to the area when you double each side? What happens to the area when you triple each side of the original square?
- What is the formula for finding the sum of the interior angles of any polygon?
- Find the sum of the interior angles of a decagon.
- What is the sum of the exterior angles of any polygon?
- What are the five properties of a parallelogram?
- A circumcenter is the intersection of the _____ of a triangle.
- What is the special property of a circumcenter?
- An incenter is the intersection of the _____ of a triangle.
- What is the special property of an incenter?
- A centroid is the intersection of the _____ of a triangle.
- What is the special property of a centroid?
- Write the equation of the perpendicular bisector of the segment A (-5, 8) and B (7, -10) in slope intercept form.
- Find the measure of angle NED in the picture on the right.



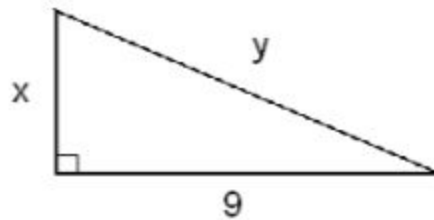
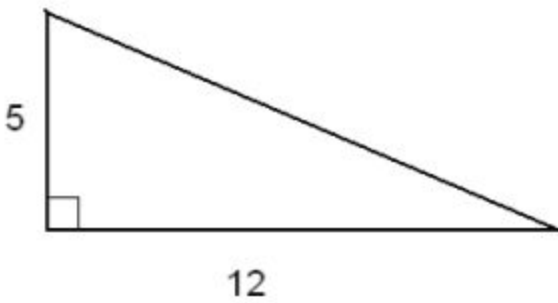
21. A regular polygon has a sum of interior angle measures of 1080° . Find the number of sides, the measure of each interior angle and the measure of each exterior angle.

22. Find x in the diagram below.

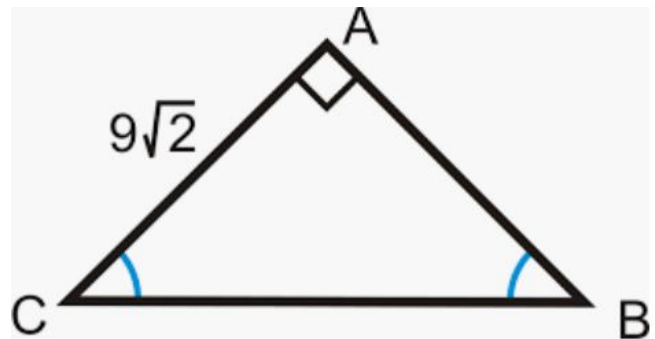
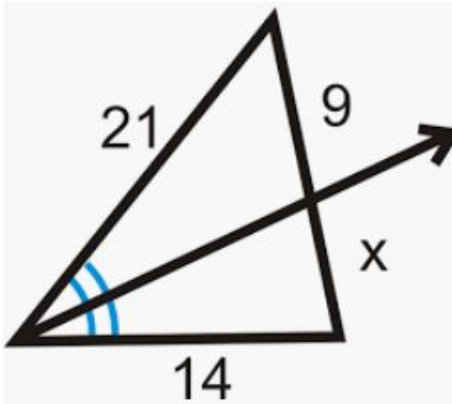


23. Find x and y in the parallelogram above and to the right.

24. Given the two similar triangles below, find x and y .



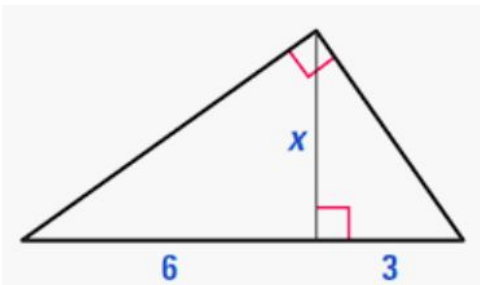
25. Given the triangle and angle bisector below, find the value of x .



26. Find AB and CB in the isosceles right triangle above and to the right.

27. Find the image of the point $A(7, -2)$ after reflecting it over the x -axis, then over the line $y = x$.

28. Find the height of the triangle below.



29. Look over your old tests.