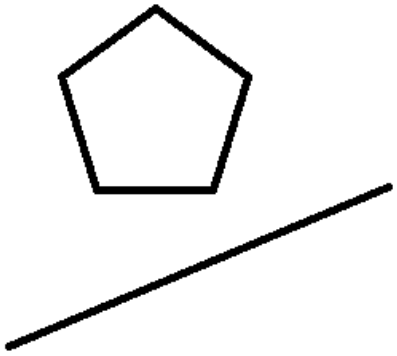
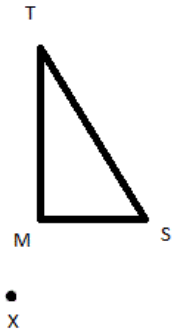
Name: _____ Geometry
Date: _____ Unit C
Class: _____ EC

To be eligible to receive extra credit on the unit test you must have a score below 75. To receive extra credit you must score an 80% or higher on this assignment (anything lower results in no extra credit). If you earn extra credit is calculated in the following manner: (75 – Old Test Score)/3. No rounding up. Multiply that number by 2 and add it to your old test score to get your new test score. This assignment will not be accepted late for any reason other than missing the day of school it is due in which case it must be turned in the next day you are in school even if you do not have class.

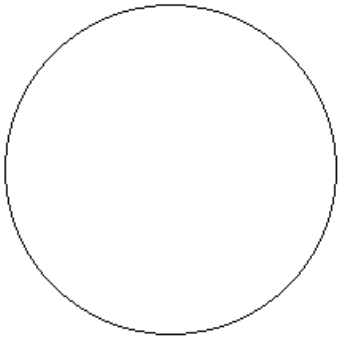
1) [4] Reflect the pentagon over the line. Label the vertices of the original pentagon with letters that you choose and then appropriately label the image.



2) [5] Dilate triangle TMS with a scale factor of 2 centered at X



3) [4] Create an inscribed octagon in the following circle. Explain how the arcs between 2 vertices tell you that you have created an octagon.



4) [6] Create an isosceles triangle on segment MV of the following square. The legs of the new isosceles triangle should be twice as long as segment DM. If the area of square DVMA is $64in^2$ find the area of the new triangle you created in simplest radical form.