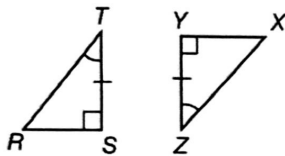


11. (24) A triangular garden has an area of 48 square feet. The base of the garden measures $6x$ inches and the height measures $2x + 4$ inches. Find the base and height measurements of the garden. Provide a justification for each step.

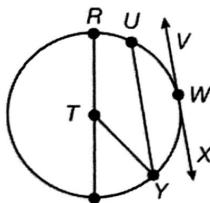
12. (29) Give a Pythagorean triple that is proportional to (45, 108, 117).

13. (36) Use the LA Congruence Theorem to prove that $\triangle RST$ and $\triangle XYZ$ are congruent.



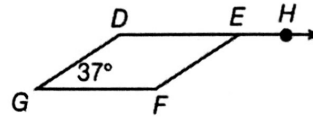
14. (38) A library has three branches located throughout a city at points $D(1, 3)$, $E(1, 1)$, and $F(5, 1)$. The main library is equidistant from the three branches. Find the location of the main library.

15. (43) Name a tangent line to the circle shown below and identify the point of tangency.

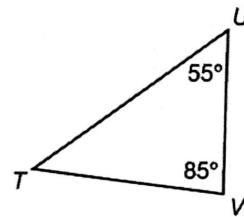


16. (Inv. 3) What is the sum of the interior angle measures of a convex, irregular hexagon?

17. (34) In the parallelogram shown, what are the measures of $\angle GDE$, $\angle DEF$, and $\angle FEH$?

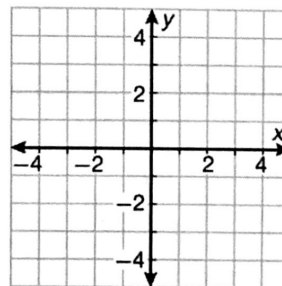


18. (39) Order the lengths of $\triangle TUV$ from least to greatest.



19. (28) What is the included side of $\triangle RST$ that is between $\angle STR$ and $\angle RST$?

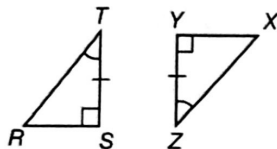
20. (45) Triangle DEF has a base of 2 units and a height of 2 units. Angle D is a right angle. Position $\triangle DEF$ on the coordinate plane.



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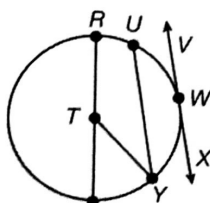
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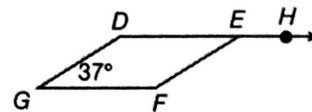
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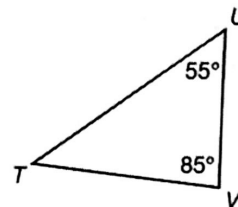


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