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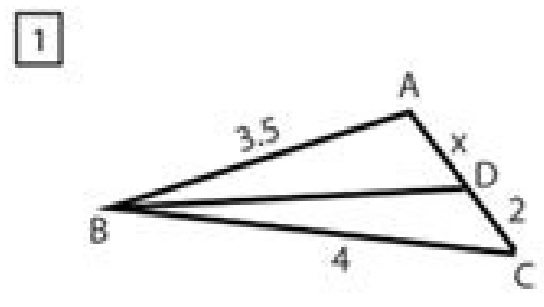
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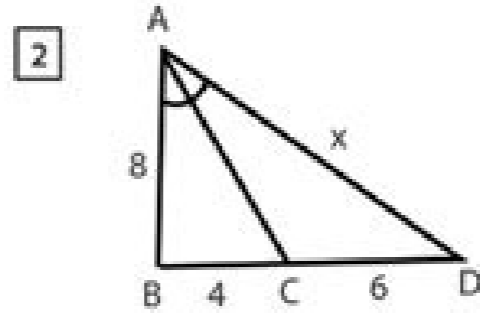


Triangle Proportionality Theorems Worksheet

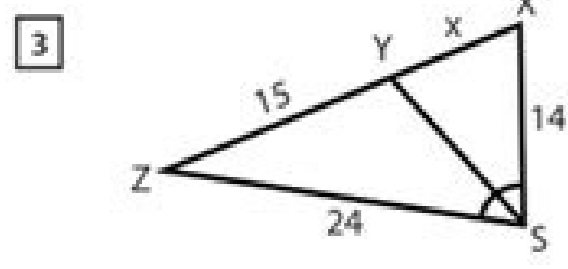
Using the proportionality theorems, find the value of 'x'



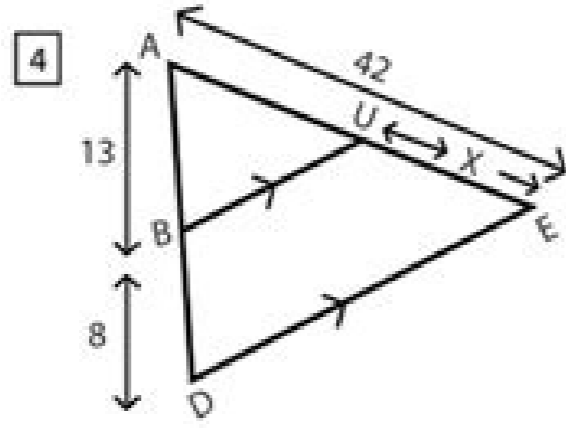
x = \_\_\_\_\_



x = \_\_\_\_\_



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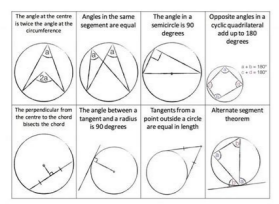
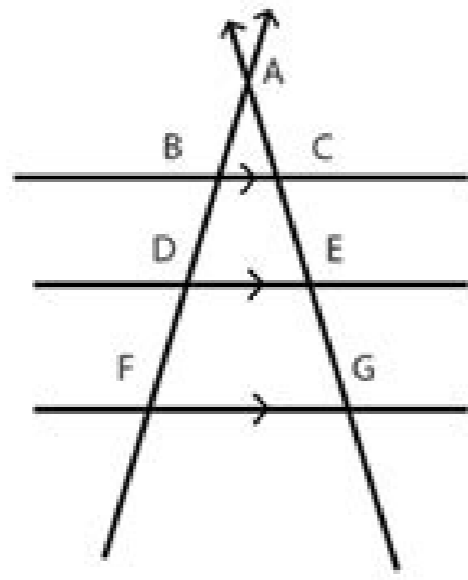
5 Use the figure to complete the proportion

1)  $\frac{AB}{BD} = \frac{CE}{DE}$

2)  $\frac{FD}{DB} = \frac{EC}{BC}$

3)  $\frac{BC}{DE} = \frac{AC}{CE}$

4)  $\frac{FG}{BC} = \frac{AG}{AC}$



The Five Circles Theorem (Jacobs, Page 568)

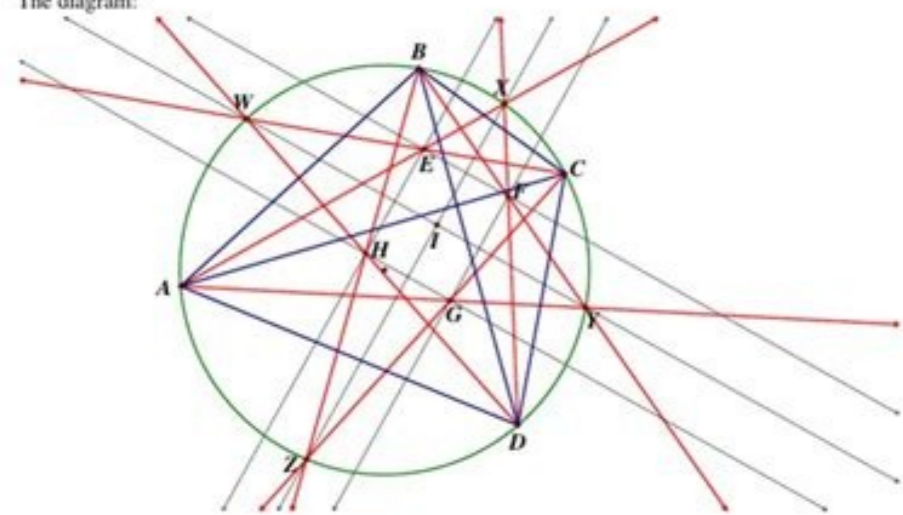
**Theorem.** Given a quadrilateral ABCD inscribed in a circle, draw diagonals AC and BD. Then construct the inscribed circles of  $\triangle ABC$ ,  $\triangle BCD$ ,  $\triangle ACD$ , and  $\triangle ABD$  and label their centers E, F, G, and H as in the diagram below.

Peter Renz, an editor of Jacobs' book, *Geometry: Seeing, Doing, Understanding Third Edition*, challenged me to produce a proof of this result that is more elementary than the one suggested by Jacobs in the *Teachers Guide*, which makes use of reflections. I found one which does not depend on transformational methods and depends only on results commonly taught in a first course in geometry.

In what follows, I present the proof and also discuss how I used Geometer's Sketchpad to help discover the proof.

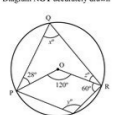
First, I used Sketchpad to construct the diagram, take measurements, and totally convince myself that the centers of the four inscribed circles indeed form the vertices of a rectangle. Next, to simplify the diagram, I left out the inscribed circles, because the result only refers to their centers, which are determined as the intersections of angle bisectors.

The diagram:



Exam-style question 9

The diagram shows a circle with center O. The points P, Q, R, S, T are on the circumference of the circle.   
 (a) Work out the value of x.   
 (b) Work out the value of y.   
 (c) Work out the value of z.   
 (d) Work out the value of w.   
 (e) Work out the value of v.   
 (f) Work out the value of u.   
 (g) Work out the value of t.   
 (h) Work out the value of s.   
 (i) Work out the value of r.   
 (j) Work out the value of q.   
 (k) Work out the value of p.   
 (l) Work out the value of o.   
 (m) Work out the value of n.   
 (n) Work out the value of m.   
 (o) Work out the value of l.   
 (p) Work out the value of k.   
 (q) Work out the value of j.   
 (r) Work out the value of i.   
 (s) Work out the value of h.   
 (t) Work out the value of g.   
 (u) Work out the value of f.   
 (v) Work out the value of e.   
 (w) Work out the value of d.   
 (x) Work out the value of c.   
 (y) Work out the value of b.   
 (z) Work out the value of a.





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