Angles of Polygons



Find the sum of the measures of the interior angles of each convex polygon.

1. 11-gon 180(11-2) = 1620 180(N-2)

3. 17-gon

2. 14-gon

180(14-2) 180(12) 2160°

The measure of an interior angle of a regular polygon is given. Find the number of sides in the polygon.

the polygon. 144 = 180(n-2) 144n = 180n - 360 -36n = -360 n = 10

$$n = 15$$

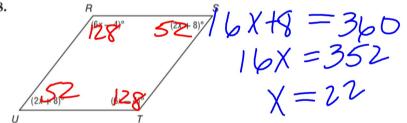
$$n = 18$$

Find the measure of each interior angle.

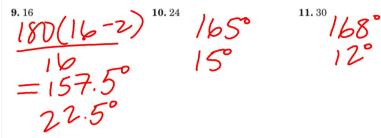
7

 $7 \times 10 = 360$ $7 \times 10 = 360$ 1 = 50

8.



Find the measures of an exterior angle and an interior angle given the number of sides of each regular polygon. Round to the nearest tenth, if necessary.



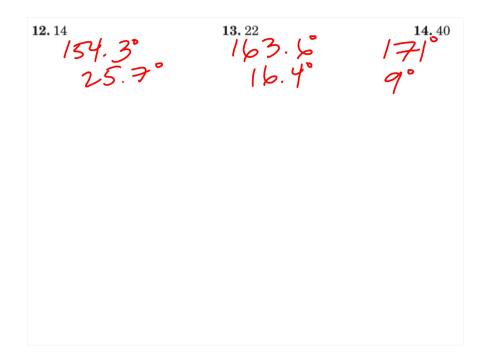
H. Geometry	6-2: Kites and Trapezoids	Date:
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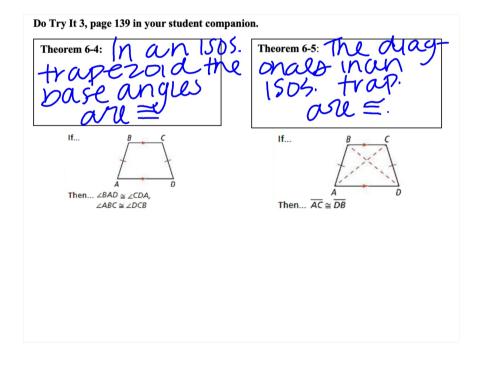
Objective: I can use triangle congruence to understand kites and trapezoids.

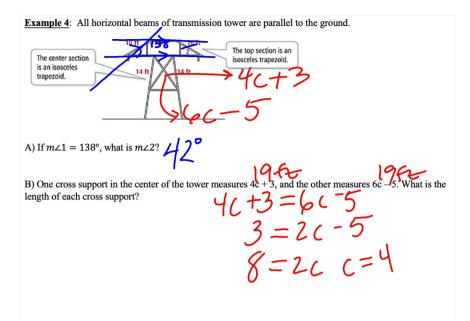
DEFINTIONS
A kite

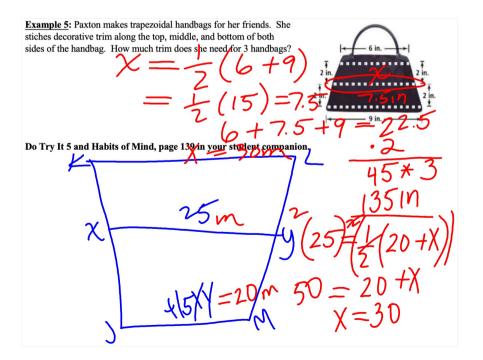
An isosceles trapezoid

Do "Critique and Explain" and Habits of Mind in your student companion, page 137.









In your Book

Read Concept Summary and #1-11 page 259 (page 140 in your student companion). Tomorrow's assignment is page 260 #14, 16, 17, 19, 20, 22 (1760 yd = 1 mile), 24, 25, 26A