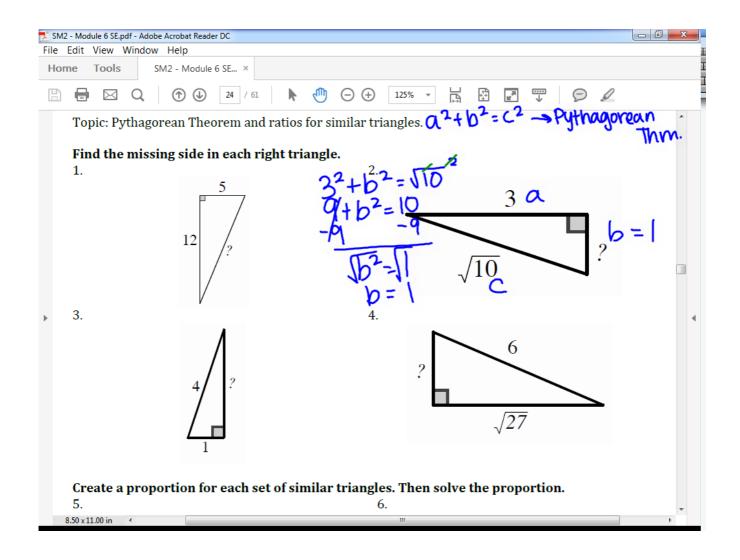
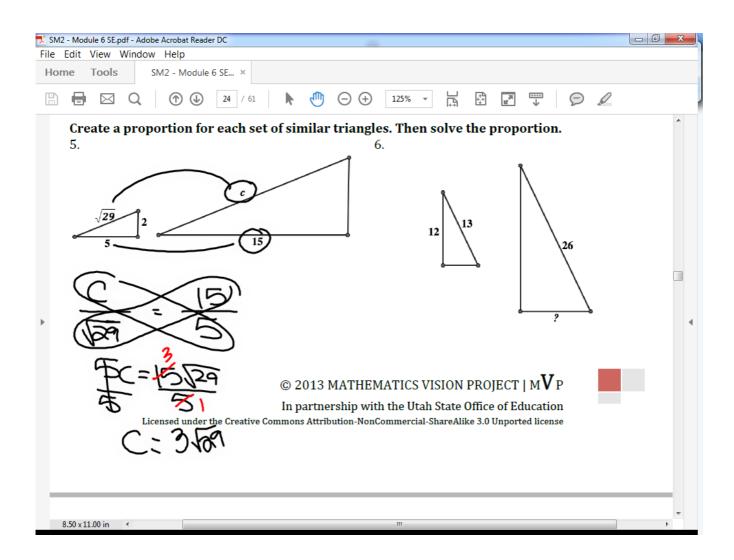
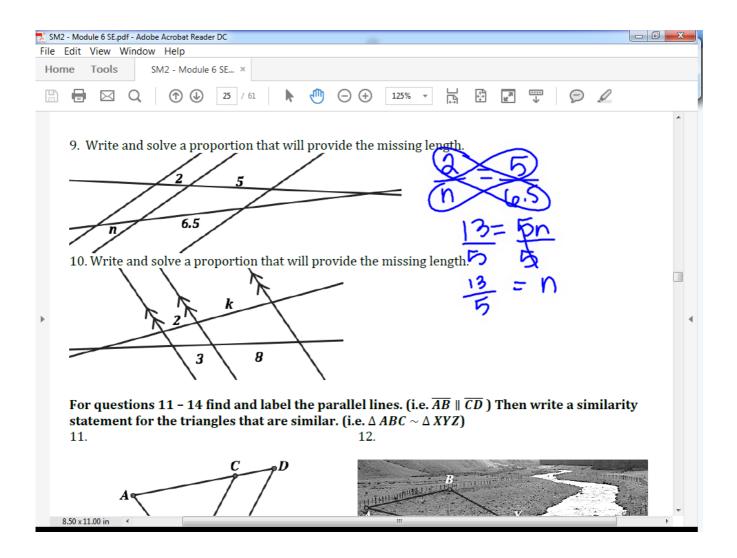
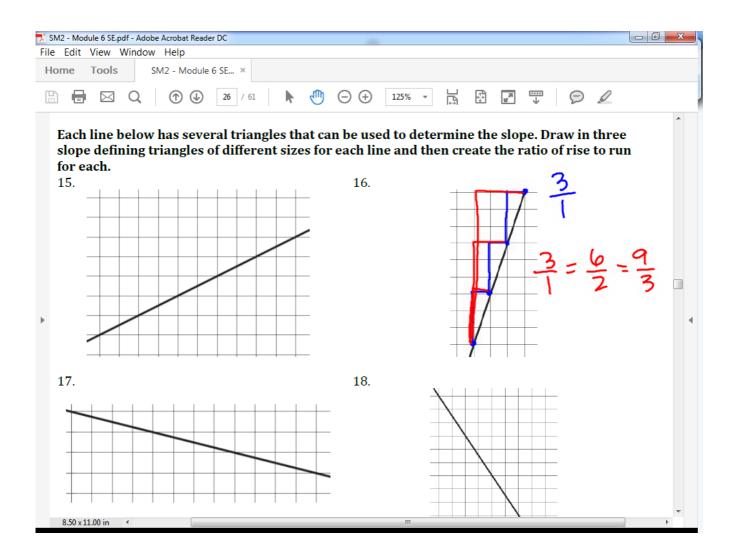
Questions on 6.4 HW?







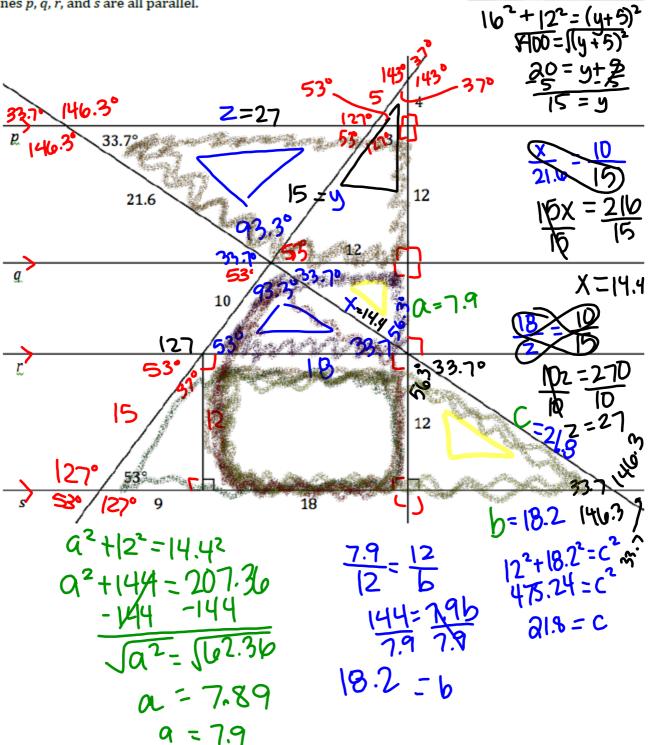


6.5 Measured Reasoning

A Practice Understanding Task

Find the measures of all missing sides and angles by using geometric reasoning, not rulers and protractors. If you think a measurement is impossible to find, identify what information you are missing.

Lines p, q, r, and s are all parallel.



 Identify at least three different quadrilaterals in the diagram. Find the sum of the interior angles for each quadrilateral. Make a conjecture about the sum of the interior angles of a quadrilateral.

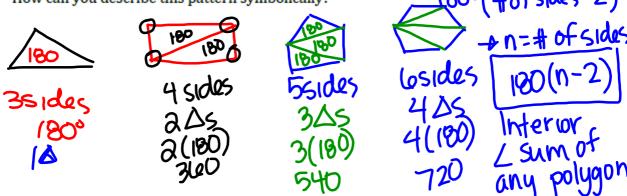
$$\frac{1}{2} = 53 + 93.3 + 33.7 + 90 + 56.3 + 33.7 = 360^{\circ}$$

Conjecture: Interior Ls sum to 360°.

 Identify at least three different pentagons in the diagram. Find the sum of the interior angles for each pentagon. Make a conjecture about the sum of the interior angles of a pentagon.

Conjecture: Interior Ls sum to 540°.

3. Do you see a pattern in the sum of the angles of a polygon as the number of sides increases? How can you describe this pattern symbolically?



4. How can you convince yourself that this pattern holds for all n-gons?

Homework

Finish 6.5 "Ready, Set, Go"