2 Test Prep

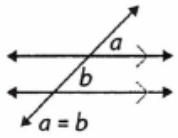
Complete the following to summarize the important ideas from this chapter.

Q: When a transversal intersects a pair of lines, what do you know?

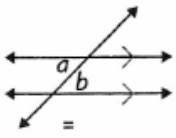
NEED HELP?
- See Lessons 2.1, 2.2

A: • If the intersected lines are parallel:

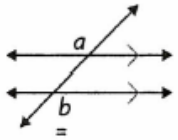
Corresponding angles are equal.



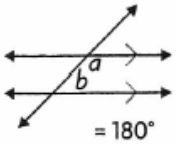
Alternate interior angles are equal.



Alternate exterior angles are equal.



Same-side interior angles are Supplementary.



• If corresponding angles are equal, the intersected lines are parallel.

Q: What are the two key angle relationships for triangles?

A:

- The sum of the interior angle measures of a triangle is 180°.

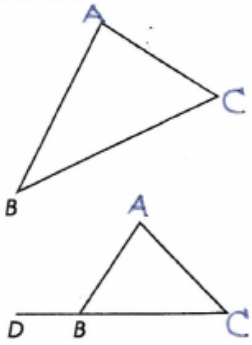
  $\angle A + \angle B + \angle C = 180°$

- The measure of an exterior angle is the sum of the measures of the two non-adjacent interior angles.

  $\angle DBA = \angle A + \angle C$

NEED HELP?

- See Lesson 2.3



Q: What are the useful points to remember about angles of polygons?

A:

- The interior angle sum of an n-sided convex polygon is $180°(n-2)$.
- The measure of each interior angle of a regular polygon is $\frac{180°(n-2)}{n}$.

  In the diagram, $\angle a + \angle b + \angle c + \angle d = 180°(4 - 2)$.
- The sum of the exterior angle measures of any convex polygon is 360°. In the diagram, $\angle w + \angle x + \angle y + \angle z = 360°$.

NEED HELP?

- See Lesson 2.4