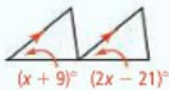


Homework: p. 349: 1-15 all

Properties of Parallel Lines

Algebra Use properties of parallel lines to find the value of x .

1.



2.



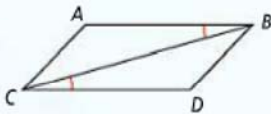
3.



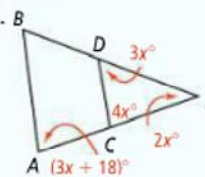
Proving Lines Parallel

Algebra Determine whether \overline{AB} is parallel to \overline{CD} .

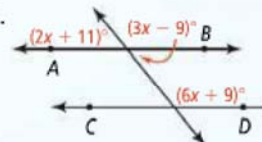
4.



5.



6.



Using Slope to Determine Parallel and Perpendicular Lines

Algebra Determine whether each pair of lines is *parallel*, *perpendicular*, or *neither*.

7. $y = -2x$; $y = -2x + 4$

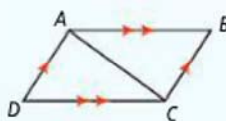
8. $y = -\frac{3}{5}x + 1$; $y = \frac{5}{3}x - 3$

9. $2x - 3y = 1$; $3x - 2y = 8$

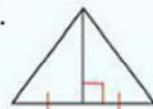
Proving Triangles Congruent

Determine the postulate or theorem that makes each pair of triangles congruent.

10.



11.



12.



Looking Ahead Vocabulary

13. You know the meaning of *equilateral*. What do you think an *equiangular* polygon is?
14. Think about what a *kite* looks like. What characteristics might a *kite* in geometry have?
15. When a team wins two *consecutive* gold medals, it means they have won two gold medals in a row. What do you think two *consecutive* angles in a quadrilateral means?