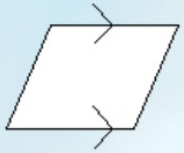
6-1 Classifying Quadrilaterals

Classifying Special Quadrilaterals

Special Quadrilaterals:

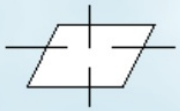
Parallelogram

Both pairs of opposite sides parallel



Rhombus

A parallelogram with 4 ≅ sides.

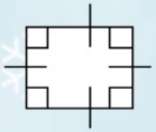


Rectangle

A parallelogram with 4 right angles.

Square

A parallelogram with 4 ≅ sides and 4 right angles.



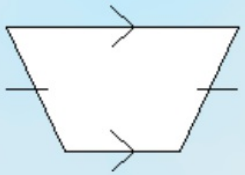
Kite

A parallelogram with 2 pairs of adjacent sides ≅ and no opposite sides ≅.

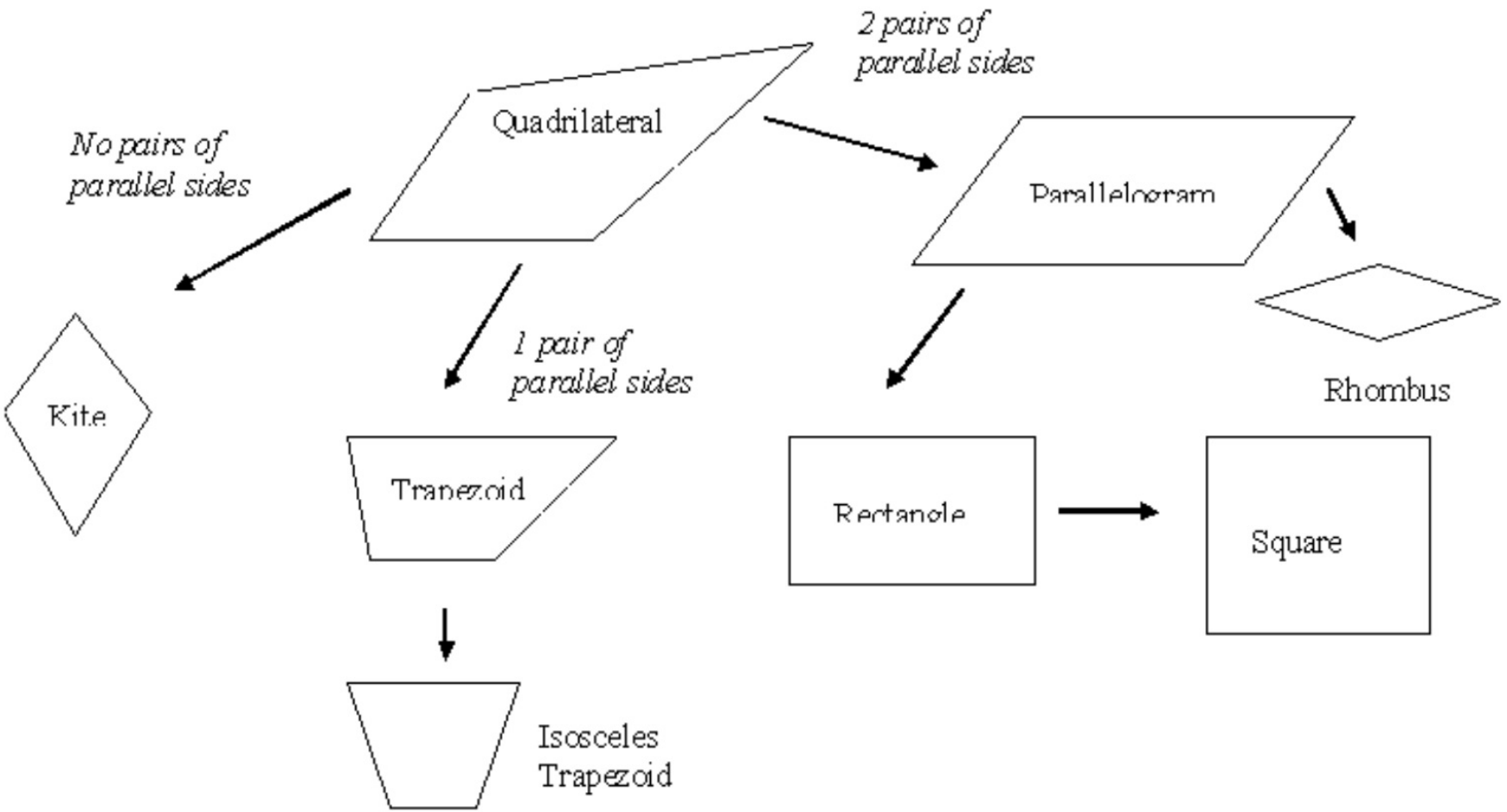
Trapezoid

A quadrilateral with exactly one pair of parallel sides.

Isosceles trapezoid – a trapezoid whose nonparallel sides are ≅.



Quadrilateral Chart:

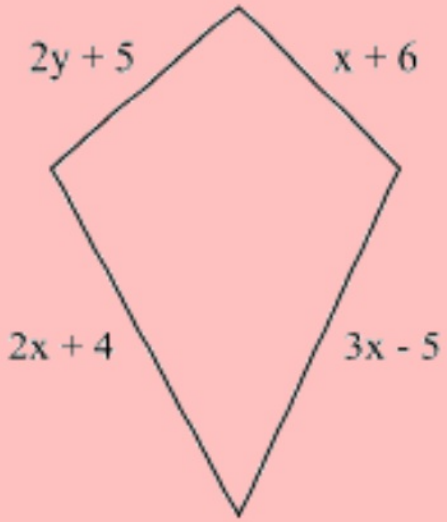


Objectives: To classify, learn and apply the properties of quadrilaterals.

HSC.CO.11

Examples

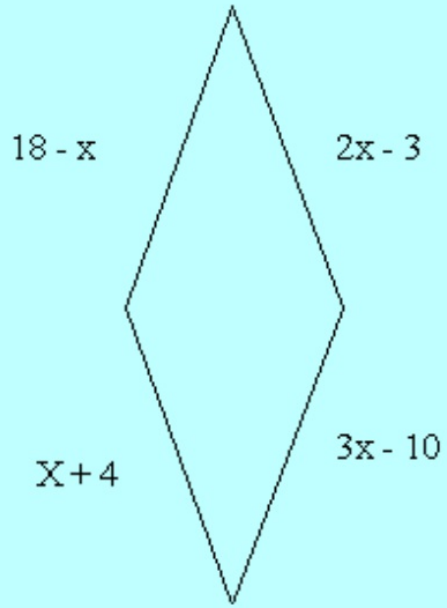
1. Find the values of the variables for the kite.



Objectives: To classify, learn and apply the properties of quadrilaterals. HSC.CO.11

(3) Using the Properties of Special Quadrilaterals

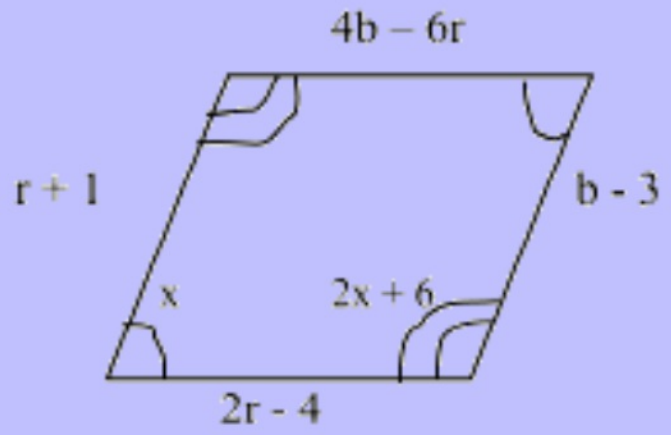
•Find the value of the variables for the rhombus. Then find the lengths of the sides.



Objectives: To classify, learn and apply the properties of quadrilaterals.

HSC.CO.11

2. Find the measures of the angles and the sides of the rohombus



Objectives: To classify, learn and apply the properties of quadrilaterals. HSC.CO.11

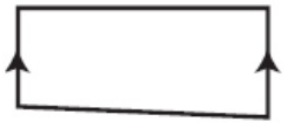
Classify each quadrilateral by its most precise name.

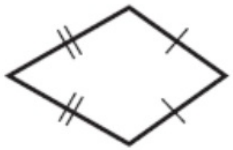
5.

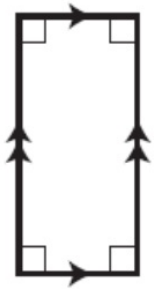
6.

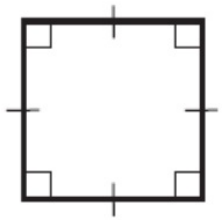
7.

8.

9. 

10. 

11. 

12. 

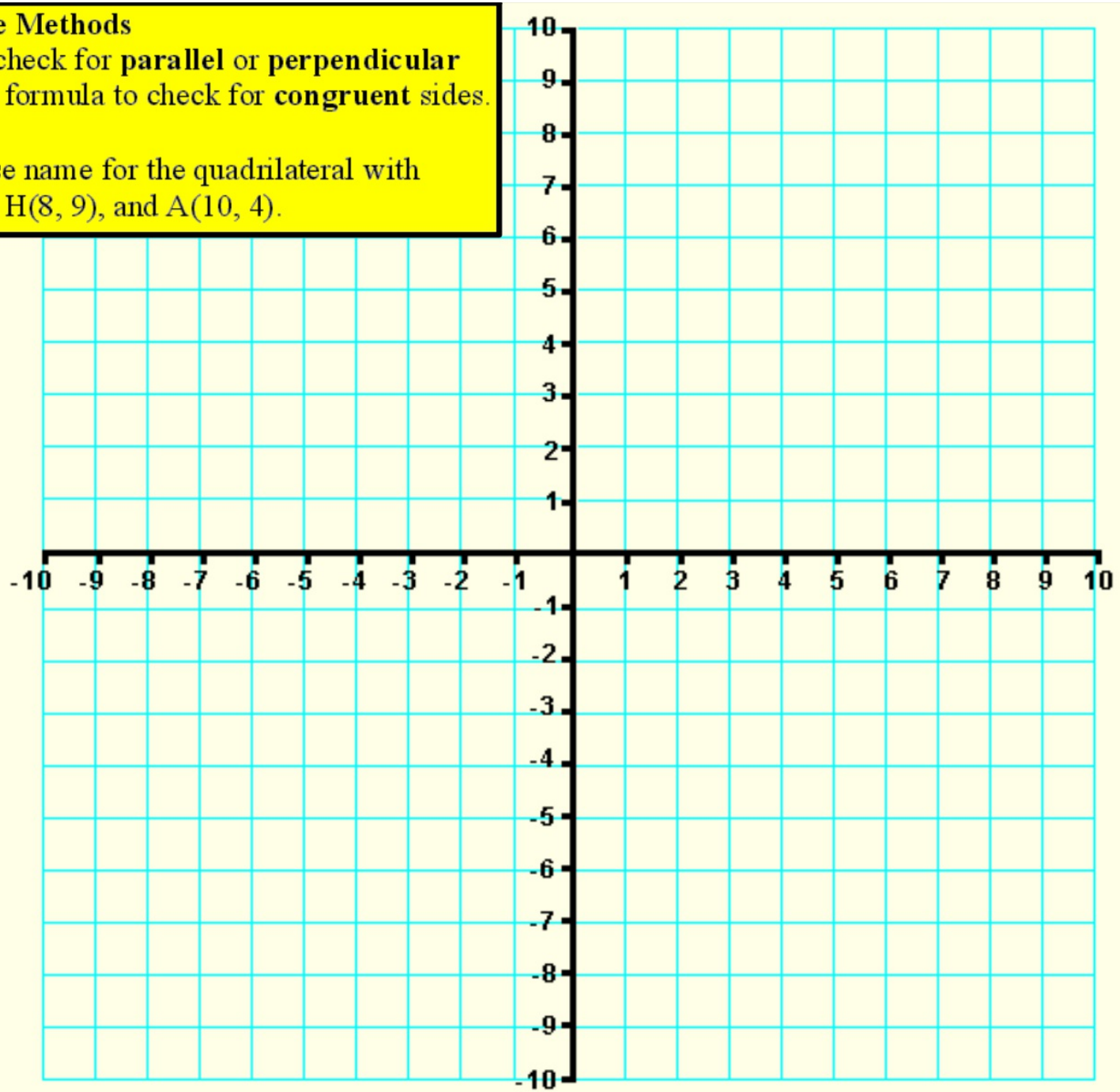
Coordinate Methods

formula to check for **parallel** or **perpendicular**

he **distance** formula to check for **congruent** sides.

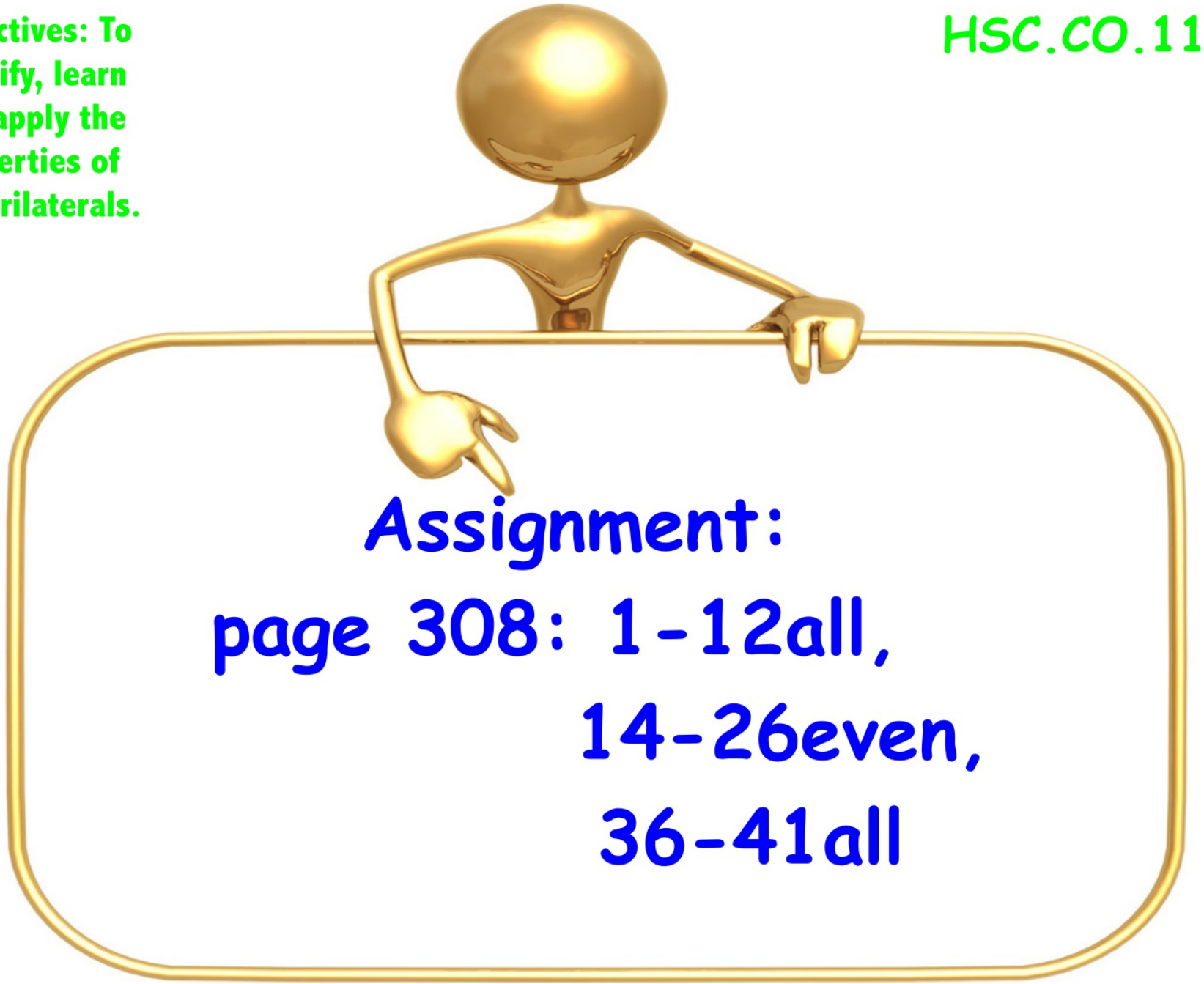
most precise name for the quadrilateral with

4), B(-2, -9), H(8, 9), and A(10, 4).



Objectives: To classify, learn and apply the properties of quadrilaterals.

HSC.CO.11



Assignment:

page 308: 1-12all,
14-26even,
36-41all