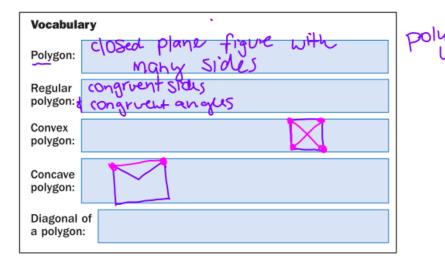
10.2 Polygons and Quadrilaterals

Goal: Classify polygons and quadrilaterals.



Polygons	Regular polygons	Not polygons	

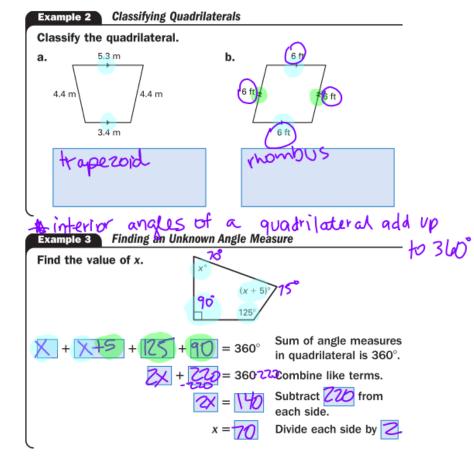
The name n-gon refers to a polygon that has n sides. For example, a 15-gon is a polygon that has 15 sides.

Names of Other Polygons

Polygons	Pentagon	Hexagon	Heptagon	Octagon	<i>n</i> -gon
Number of sides	5	6	7	8	n

	Example 1 Identifying and Classifying Polygons					
Tell whether the figure is a polygon. If it is a polygon, classify it and tell whether it is convex or concave. If not, explain why.						
	a. b					
	yes it's a polygon hexagon convex	b/c it has curred sides				

Quadrilaterals	Diagram
Trapezoid	
A trapezoid is a quadrilateral with exactly 1 pair of parallel sides.	
Parallelogram	
A parallelogram is a quadrilateral with both pairs of opposite sides parallel.	<i>f</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Rhombus	
A rhombus is a parallelogram with 4 congruent sides.	<i></i>
Rectangle	
A rectangle is a parallelogram with 4 right angles.	
Square	
A square is a parallelogram with 4 right angles and 4 congruent sides.	



Checkpoint Tell whether the figure is a polygon. If it is a polygon, classify it and tell whether it is convex or concave. If not, explain why.

