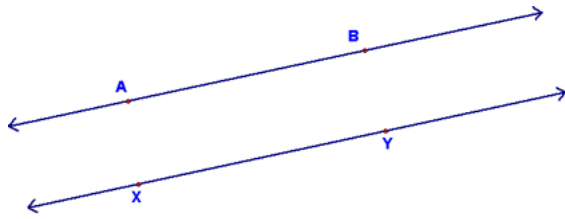


Shapes and formulas!



Parallel:

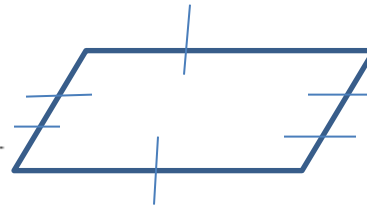
Parallel lines are two coplanar lines that do not intersect.
In the figure above, $\overleftrightarrow{AB} \parallel \overleftrightarrow{XY}$.



Congruent: same length or same angle measurement

Quadrilateral 4 angles 4 sides

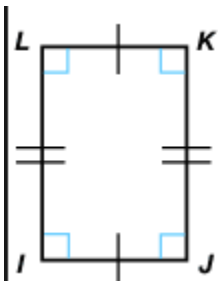
A **parallelogram** is a quadrilateral with two pairs of parallel sides.



Area formula for parallelogram: $b \times h$

A **rectangle** is a quadrilateral with two pairs of parallel sides AND 4 right angles.

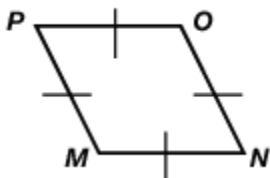
A **rectangle** is a parallelogram with 4 right angles.



Area Formula for rectangle: $l \times w$

A **rhombus** is a quadrilateral with two pairs of parallel sides AND 4 congruent sides.

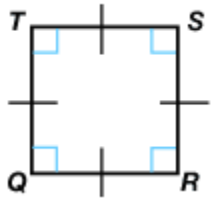
A **rhombus** is a parallelogram with 4 congruent sides.



Area formula for a rhombus $l \times w$ or S^2

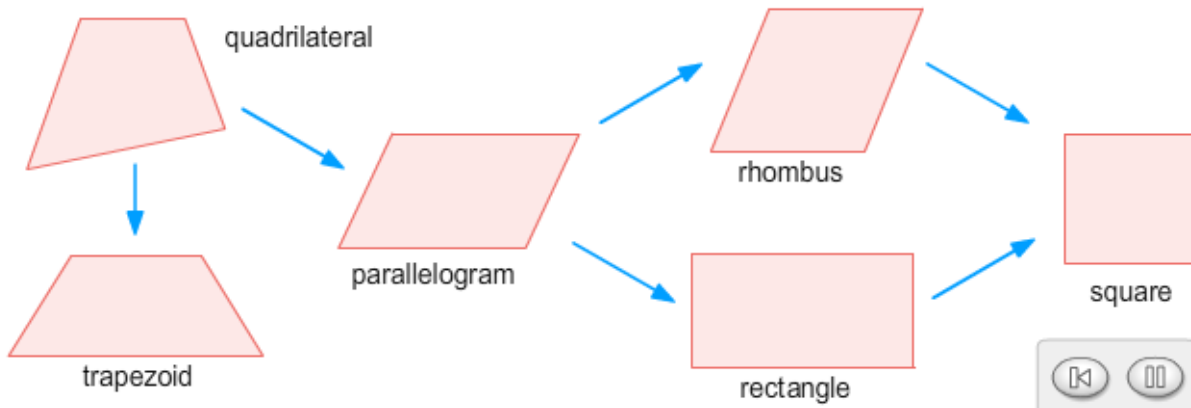
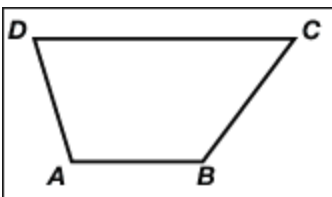
A **square** is a quadrilateral with two pairs of parallel sides, 4 right angles, AND 4 congruent sides.

A **square** is a parallelogram, a rectangle, and a rhombus.



Area formula for a square: s^2 or $l \times w$

A **trapezoid** is a quadrilateral with only one pair of parallel sides.



Triangles: Area formula : $\frac{1}{2} bh$ or $(bh)/2$

