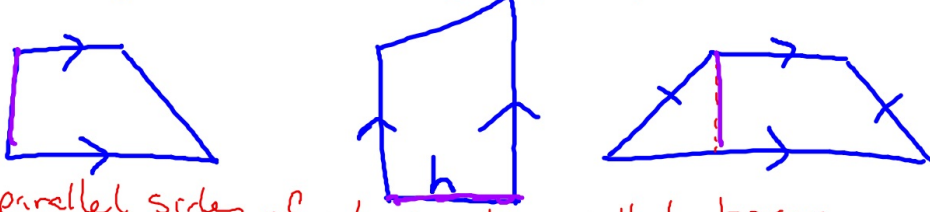


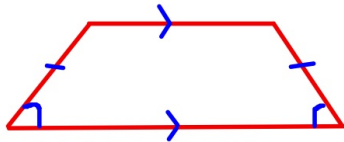
Q- Day 6
The Trapezoid

Definition- A quadrilateral that has only one pair of parallel sides.



the parallel sides of a trapezoid are called bases.

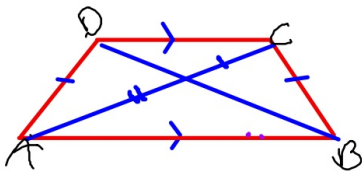
Isosceles Trapezoid- A trapezoid in which the nonparallel sides are congruent



Base angles of an isosceles trapezoid are congruent

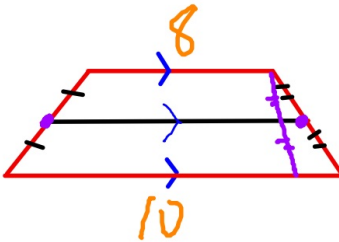
$$A = \frac{1}{2}(b_1 + b_2)h = (b_1 + b_2) \frac{h}{2}$$

$$= \frac{b_1 + b_2}{2} \cdot h$$



$$\overline{AC} \cong \overline{BD}$$

In an isosceles trapezoid the diagonals are congruent.



The median of a trapezoid joins the midpoints of the two nonparallel sides.

The median is parallel to the base sides.

The length of the median is equal to $\frac{1}{2}$ the sum of the bases

