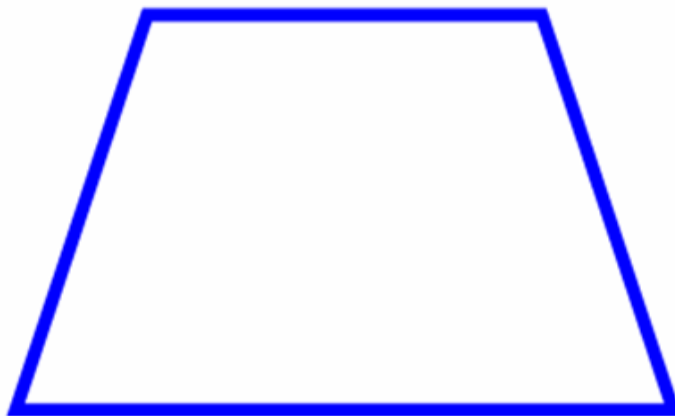


Def. Trapezoid

A quad. with exactly 1 pair of opp. sides being \parallel



Def. Isosceles Trap.

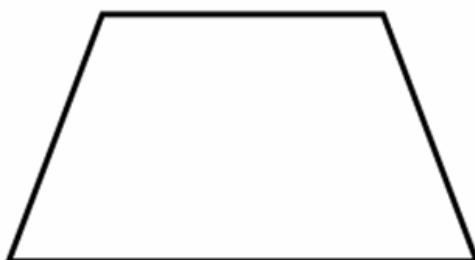
A Trap. with \cong legs



Both pairs of base \angle 's of an isosceles trap. are \cong .

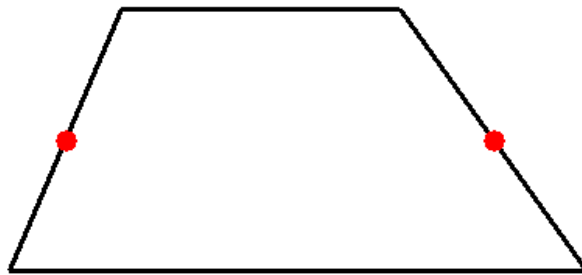


The diagonals of an isosceles trap. are \cong .

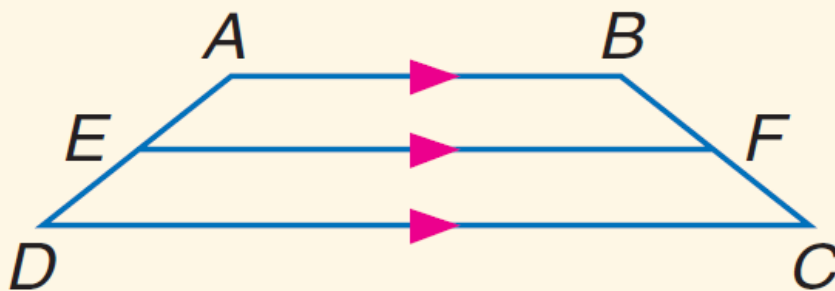


Def. Median of a trap.

A segment that joins the midpts. of its legs.



The median of a trap. is \parallel to the bases, and its measure is one-half the sum of the measures of the bases.



$$EF = \frac{1}{2}(AB + DC)$$

ALGEBRA $JKLM$ is an isosceles trapezoid with $\overline{JK} \parallel \overline{LM}$ and median \overline{RP} .
Find RP if $JK = 2(x + 3)$, $RP = 5 + x$, and $ML = \frac{1}{2}x - 1$.

Find the measure of each base angle of $JKLM$ if $m\angle L = x$ and $m\angle J = 3x + 12$.