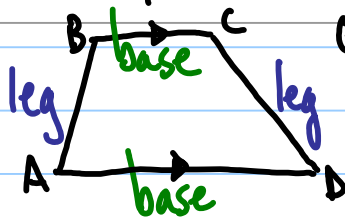


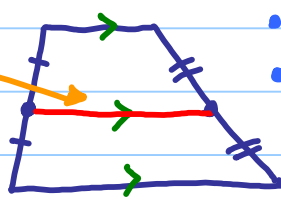
2/7
TUE

8.5 Trapezoid

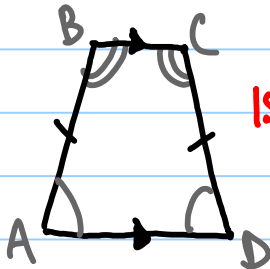


Quad w/ one pair of parallel sides
 $\rightarrow \overline{BC} \parallel \overline{AD}$

median
 (or midsegment)

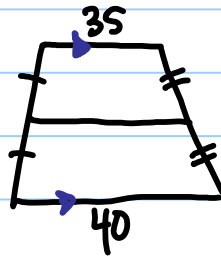


- \parallel to the bases
- average of the bases



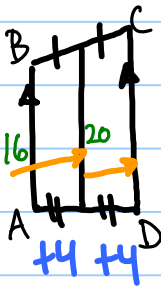
Isosceles trapezoid
 $\angle A \cong \angle D$
 $\angle B \cong \angle C$

ex 1)



Find the median

ex 1.5)



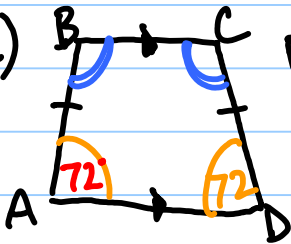
Find the missing base.
 $\rightarrow CD?$

Shortcut
 $20 + 4 = 24$

$$\rightarrow \frac{35 + 40}{2} = \frac{75}{2} = 37.5$$

OR Shortcut
 Double median
 Subt base
 $\rightarrow 2(20) - 16 = 40 - 16 = 24$

ex 2)



Find the missing angles.

\rightarrow Isosceles trapezoid
 $m\angle D = 72^\circ$

$$\begin{array}{r} 180 \\ - 72 \\ \hline 108 \end{array}$$

$$m\angle B = m\angle C = 108^\circ$$