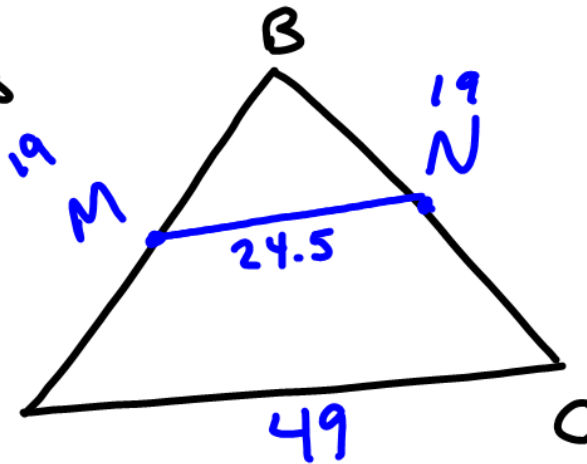


5.1 Midsegments

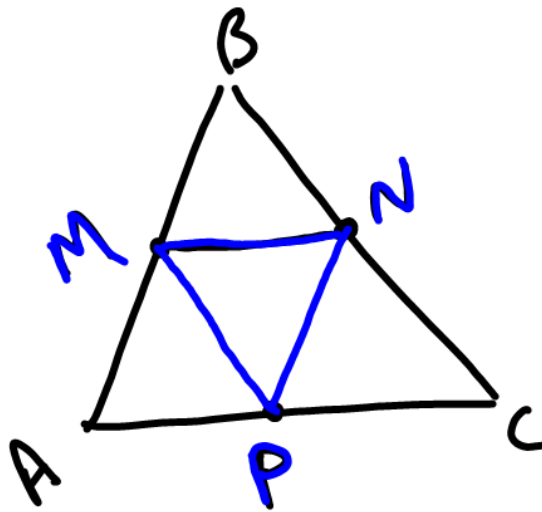
* Connects the midpoints of 2 sides

* Is half of the base
 ($\frac{1}{2} AC = MN$ or $2MN = AC$)
 or twice midsegment = the base



24.5 is half of 49

* $\overline{MN} \parallel \overline{AC}$

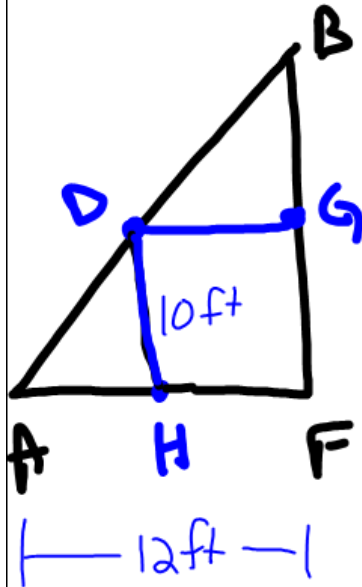


* \overline{MN} midseg for \overline{AC}

* \overline{NP} midseg for \overline{AB}

* \overline{MP} midseg for \overline{BC}

Example



\overline{DG} & \overline{DH} are midsegments.
Find DG & BF

$$DG = \frac{1}{2} AF \quad \text{or} \quad 2DG = AF$$

$$\begin{aligned} DG &= \frac{1}{2}(12) \\ &= \textcircled{6\text{ft}} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} BF &= DH \quad \text{or} \quad BF = 2DH \\ &= 2(10) \\ &= 20\text{ft} \end{aligned}$$