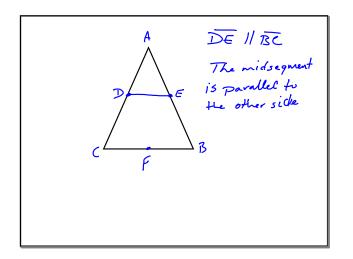
5.4 Midsegment Theorem L bisectors from side / bisectors from Angle medians from Angle Altitudes -

6 AB= 2x+4 EF = ZAB EF= 3×  $3x = \frac{1}{2}(2x+4)$  $OE = \frac{1}{2} AC$  $OF = \frac{1}{2} BC$ 3x-x+2



In Coordinate Planes To show that a segment is I the distance we must use the distance formula DE is the midsegment in triangle ABC :6 BC = 6510 DE = 3110

To prove parallel Same Slope  $\frac{Y-7}{-3-2} = \frac{3}{5}$   $M = \frac{Y_2 - Y_1}{X_2 - X_1} = -5 - (-1) = 3$  $A(2,7) B(-3,4) = \frac{-5-(-2)}{8-3} = \frac{-3}{5}$ C(3,-2) D(8,-5) AB + CD

Finding Midsequents Use Midpoint Formela to Find all 3 midpoints then connect the dots  $Midpoint\left(\frac{y_1+y_2}{2},\frac{y_1+y_2}{2}\right)$ distance d= V (x2-x1)2+ (41-41)2

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P290 - 292 2-36 even skip 20,30 + Find and print a Evoctal triangle or other Evoctal