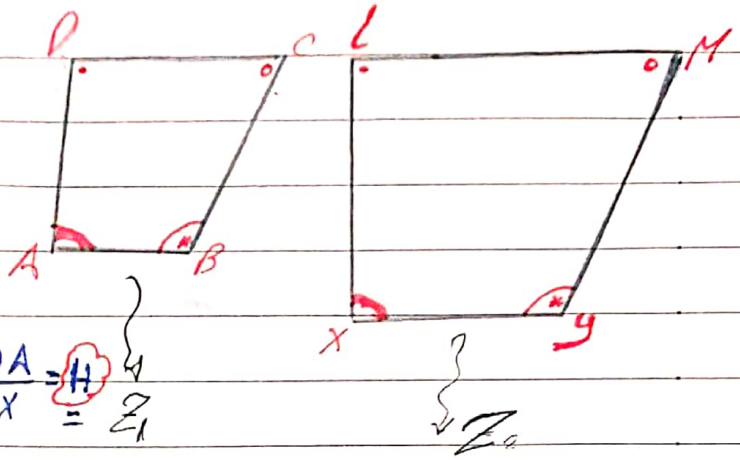
الموضوع: _____ التاريخ: / /

Unit 3

lesson 1

* $Z_1 \sim Z_2$ «ABCD ~ XYML» :



If ① $\angle A = \angle X$

$\angle B = \angle Y$

$\angle C = \angle M$

$\angle L = \angle D$

② $\frac{AB}{XY} = \frac{BC}{YM} = \frac{CD}{ML} = \frac{DA}{LX} = H$ ← Z_1 ← Z_2

If

$H > 1 \rightarrow Z_2$ Enlargement Z_1

$0 < H < 1 \rightarrow Z_2$ Shrinking Z_1

$H = 1 \rightarrow Z_2$ Congruent Z_1

Z_2 تكبير

Z_2 تصغير

Z_2 تطابق

* $\frac{\text{Perimeter of } Z_1}{\text{Perimeter of } Z_2} = H$

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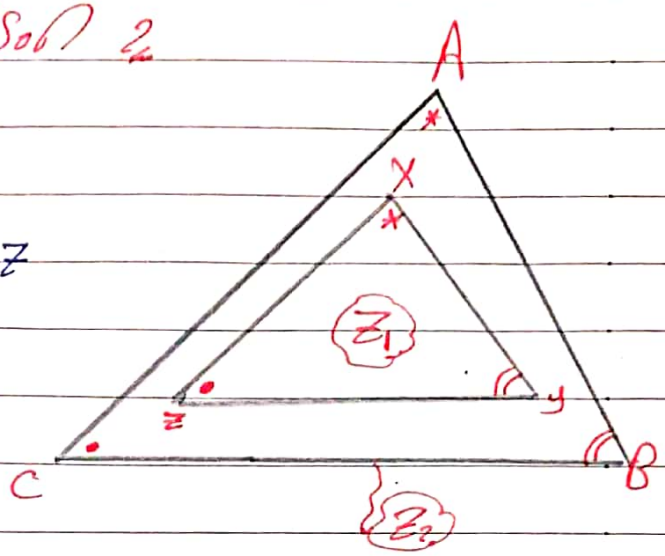
Lesson 2

If $\angle A = \angle X$, $\angle B = \angle Y$ $\therefore \Delta ABC \sim XYZ$

$$\frac{XY}{AB} = \frac{YZ}{BC} = \frac{ZX}{CA}$$



If $\Delta ABC \sim \Delta DAC \sim \Delta DBA$

$$(AB)^2 = DB * BC$$
$$(AC)^2 = DC * BC$$
$$(DA)^2 = DB * DC$$