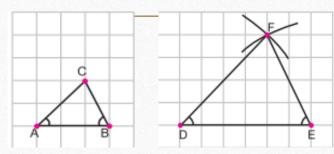




C3: Criterio de semejanza Lado-Lado (LLL)

P Construya un Δ tal que:

a)
$$DE = 2AB$$
 b) $EF = 2BC$ c) $DF = 2AC$
¿Son semejantes ΔABC y ΔDEF ?

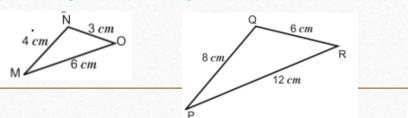


C. Criterio de semejanza Lado-Lado (LLL) Dos triángulos son semejantes si tienen los lados correspondientes proporcionales. En símbolos:

$$\frac{AB}{DE} = \frac{BC}{EF} = \frac{\dot{A}C}{DF}$$
 \Longrightarrow $\Delta ABC \sim \Delta DEF$

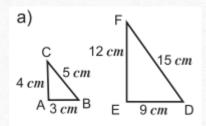


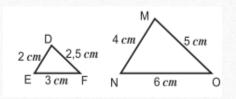
Ej. Investigue si los triángulos son semejantes



$$\frac{MN}{PQ} = \frac{4}{8} = \frac{1}{2} \qquad \frac{NO}{QR} = \frac{3}{6} = \frac{1}{2} \qquad \frac{MO}{PR} = \frac{6}{12} = \frac{1}{2}$$
 LLL
$$\Delta MNO \sim \Delta PQR$$

E. Investigue si los triángulos son semejantes





a)
$$\frac{AB}{ED} = \frac{3}{9} = \frac{1}{3}$$
 $\frac{BC}{DF} = \frac{5}{15} = \frac{1}{3}$ $\frac{AC}{EF} = \frac{4}{12} = \frac{1}{3}$ \Longrightarrow $\triangle ABC \sim \triangle EDF$

b)
$$\frac{DE}{MN} = \frac{2}{4} = \frac{1}{2}$$
 $\frac{EF}{NO} = \frac{3}{6} = \frac{1}{2}$ $\frac{DF}{MO} = \frac{2,5}{5} = \frac{1}{2}$ $\Longrightarrow \Delta DEF \sim \Delta MNO$

