

Similarity
Proof
Practice

Congruence & Similarity

Quadratic Functions

Quadratic Functions

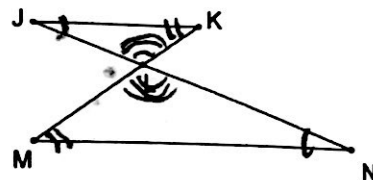
Radical Functions

Congruence & Similarity

Similarity Proofs

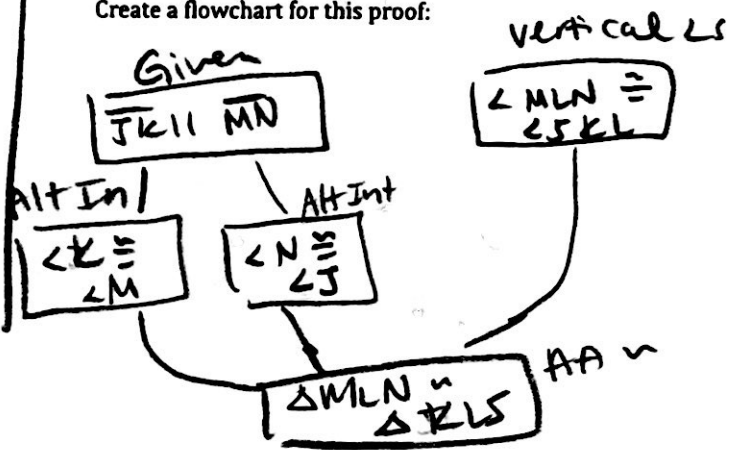
Ex 1) Given: $\overline{JK} \parallel \overline{MN}$

Prove: $\triangle JKL \sim \triangle NML$



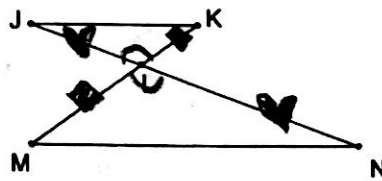
Statements	Justifications
$\angle MLN \cong \angle CLK$	Vertical \angle s
$\overline{JK} \parallel \overline{MN}$	Given
$\angle K \cong \angle M$	Alt Int
$\angle N \cong \angle J$	Alt Int
$\triangle MLN \sim \triangle KLS$	AA \sim

Create a flowchart for this proof:



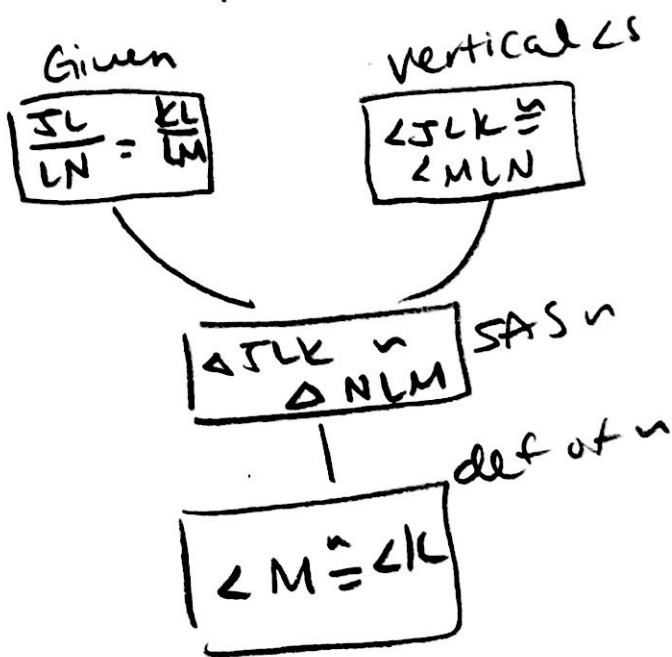
Ex 2) Given: $\frac{JL}{LN} = \frac{KL}{LM}$

Prove: $\angle M \cong \angle K$



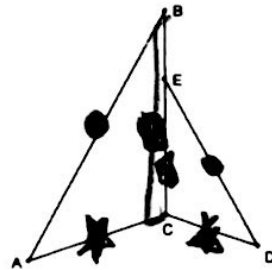
Statements	Justifications
$\frac{JL}{LN} = \frac{KL}{LM}$	Given
$\angle JLK \cong \angle NLM$	vertical \angle s
$\triangle JLK \sim \triangle NLM$	SAS \sim
$\angle M \cong \angle K$	def of \sim

Create a flowchart for this proof:



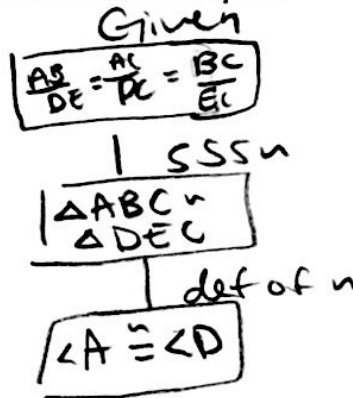
Ex 3) Given: $\frac{AB}{DE} = \frac{AC}{DC} = \frac{BC}{EC}$

Prove: $\angle A \cong \angle D$



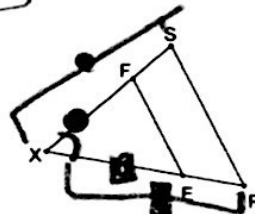
Statements	Justifications
$\frac{AB}{DE} = \frac{AC}{DC} = \frac{BC}{EC}$	Given
$\triangle ABC \sim \triangle DEC$	SSS
$\angle A \cong \angle D$	def of \sim

Create a flowchart for this proof:



Ex 4) Given: $\frac{XF}{XS} = \frac{XE}{XR}$

Prove: $\triangle XFE \cong \triangle XSR$



Statements	Justifications
$\frac{XF}{XS} = \frac{XE}{XR}$	Given
$\angle X \cong \angle X$	Given
$\triangle XFE \sim \triangle XSR$	SAS
$\angle XFE \cong \angle XSR$	def of \sim

Create a flowchart for this proof:

