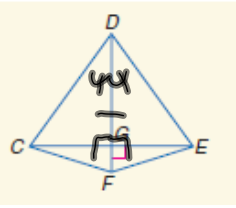


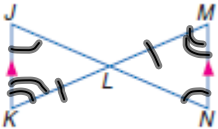
Given: \overline{DF} bisects $\angle CDE$.
 $\overline{CE} \perp \overline{DF}$
 Prove: $\triangle DGC \cong \triangle DGE$



statements	reasons
\overline{DF} bis. $\angle CDE$	given
$\overline{CE} \perp \overline{DF}$	given
$\angle CDG \cong \angle EDG$	def. of \angle bisector
$\overline{DG} \cong \overline{DG}$	Reflexive
$\angle DGC, \angle DGE$ are right	def of \perp
$\angle DGC \cong \angle DGE$	all right \angle 's are \cong
$\triangle DGC \cong \triangle DGE$	ASA

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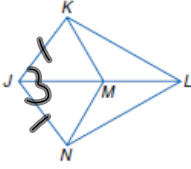
Given: $\overline{JK} \parallel \overline{MN}$; L is the midpoint of \overline{KM} .
 Prove: $\triangle JLK \cong \triangle NLM$



```

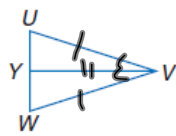
    graph LR
      A["JK || MN  
given"] --> B["∠J ≅ ∠N  
Alt Ang Thm"]
      A --> C["∠M ≅ ∠K  
Alt Ang Thm"]
      D["L is midpoint of KM  
given"] --> E["KL ≅ LM  
Mpt Thm"]
      B --> F["ΔJLK ≅ ΔNLM  
AAS"]
      C --> F
      E --> F
    
```

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<p>Given: $\triangle JKM \cong \triangle JNM$ Prove: $\triangle JKL \cong \triangle JNL$</p>	statements	reasons
	$\triangle JKM \cong \triangle JNM$	Given
	$\overline{JK} \cong \overline{KN}$	CPCTC
	$\angle KJM \cong \angle NJM$	CPCTC
	$\overline{JL} \cong \overline{JL}$	Reflexive
	$\triangle JKL \cong \triangle JNL$	SAS

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Given: $\triangle UVW$ is isosceles with vertex angle UVW .
 \overline{YV} is the bisector of $\angle UVW$.
 Prove: \overline{YV} is a median.



```

    graph LR
      A["UVW is isos  
given"] --> B["UV ≅ VW  
def of isos Δ"]
      C["YV bis. ∠  
given"] --> D["∠UVY ≅ ∠WVY  
def of ∠ bisector"]
      E["YV ≅ YV  
reflexive"] --> F["ΔUVY ≅ ΔWVY  
SAS"]
      B --> F
      D --> F
      F --> G["UY ≅ WY  
CPCTC"]
      G --> H["YV is median  
def of median"]
    
```

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