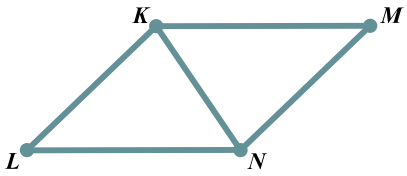
## LET'S MAKE A PROOF

Complete each two-column proof.

### Proof 1

**Given:** $\overline{KM} \parallel \overline{LN}$
$\overline{KL} \parallel \overline{MN}$

**Prove:** $\Delta KLN \cong \Delta NMK$



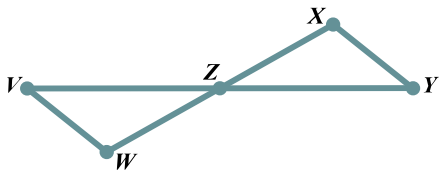

| Statement | Reason |
|---|---|
| $\overline{KM} \parallel \overline{LN}$ | |
| $\angle LNK \cong \angle MKN$ | |
| $\overline{KL} \parallel \overline{MN}$ | |
| $\angle LKN \cong \angle MNK$ | |
| $\overline{KN} \cong \overline{NK}$ | |
| | |

## Proof 2

**Given:** $\angle V \cong \angle Y$

$\overline{VY}$ *bisects* $\overline{WX}$ *at* $Z$

**Prove:** $\Delta VWZ \cong \Delta YXZ$




| Statement | Reason |
|---|---|
| $\angle V \cong \angle Y$ | |
| $\overline{VY}$ *bisects* $\overline{WX}$ *at* $Z$ | |
| | |
| | Vertical Angles Congruence Theorem |
| $\Delta VWZ \cong \Delta YXZ$ | |

## Proof 3

**Given:** $M$ *is the midpoint of* $\overline{AD}$

$M$ *is the midpoint of* $\overline{BC}$

**Prove:** $\Delta ABM \cong \Delta DCM$

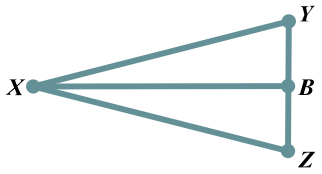

| Statement | Reason |
|---|---|
| $M$ *is the midpoint of* $\overline{AD}$ | |
| | |
| | |
| | Definition of Midpoint |
| | |
| $\Delta ABM \cong \Delta DCM$ | |

## Proof 4

**Given:** $\overline{BX}$ *bisects* $\overline{YZ}$ *at* $B$

$\overline{XY} \cong \overline{XZ}$

**Prove:** $\Delta XBY \cong \Delta XBZ$




| Statement | Reason |
|---|---|
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