

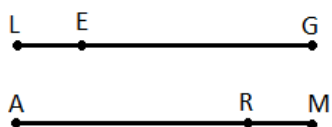
Name: _____

Congruent Segments

Practice these proofs.

1) **Given:** $\overline{LE} = \overline{MR}$ and $\overline{EG} = \overline{RA}$,

Prove: $\overline{LG} = \overline{MA}$



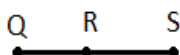
2) **Given:** $\overline{AB} = \overline{BC}$ and $\overline{BC} = \overline{CD}$

Prove: $\overline{AB} = \overline{CD}$



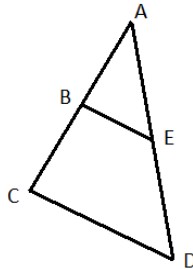
3) **Given:** $\overline{QR} = \overline{RS}$

Prove: $\overline{QS} = 2\overline{RS}$



4) **Given:** $\overline{AC} = \overline{AD}$ and $\overline{AB} = \overline{AE}$

Prove: $\overline{ED} = \overline{BC}$



5) **Given:** \overline{AD}

Prove: $\overline{AD} = \overline{AB} + \overline{BC} + \overline{CD}$

