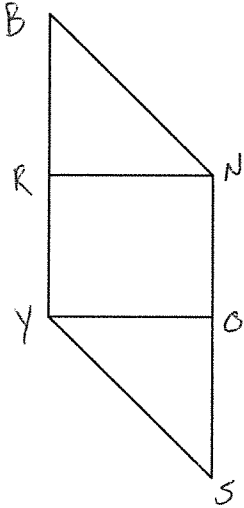


Proofs Mixed Review – Day 1
Unit 4: Similarities

Prove the following triangles are congruent using SSS, SAS, AAS, ASA, or HL:

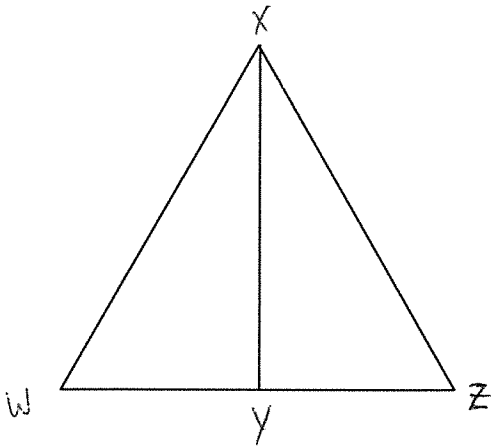
1. Given: $\overline{BR} \cong \overline{OS}$
 $\overline{BN} \cong \overline{SY}$
RYON is a square

Prove: $\triangle BRN \cong \triangle SOY$



2. Given: $\triangle WXZ$ is an Isosceles Triangle
 $\overline{XY} \perp \overline{WZ}$
Y is the midpoint of \overline{WZ}

Prove: $\triangle WXY \cong \triangle ZXY$



Prove the following triangles are similar using SSS, SAS, or AA:

3. Given: $\overline{KH} \parallel \overline{EO}$

$$\overline{KH} = 16$$

$$\overline{KL} = 28$$

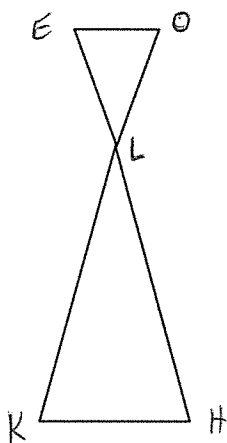
$$\overline{HL} = 32$$

$$\overline{EO} = 4$$

$$\overline{EL} = 8$$

$$\overline{LO} = 7$$

Prove: $\triangle KHL \sim \triangle OEL$



4. Given: $\overline{BE} \perp \overline{AD}$

$$\overline{AE} = 10$$

$$\overline{BC} = 12$$

$$\overline{CE} = 12$$

$$\overline{ED} = 5$$

Prove: $\triangle ABE \sim \triangle DCE$

