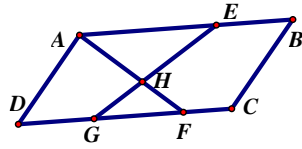


Complete the following proofs.

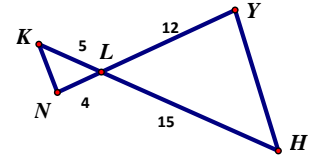
1) **GIVEN:**
ABCD is a parallelogram



PROVE:
 $\triangle AHE \sim \triangle FHG$

STATEMENT	REASON

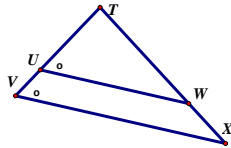
2) **GIVEN:**
LN = 4 cm, KL = 5 cm
LY = 12 cm, LH = 15 cm



PROVE:
 $\triangle KLN \sim \triangle HLY$

STATEMENT	REASON

3) **GIVEN:** $\angle TUV \cong \angle TWX$



PROVE: $\frac{TU}{TV} = \frac{TW}{TX}$

STATEMENT	REASON

4) Fill in the missing image or pre-image coordinates.

a) $D_{0, \frac{4}{5}}(10, -5) = (\underline{\quad}, \underline{\quad})$ b) $D_{0, -\frac{1}{2}}(\underline{\quad}, \underline{\quad}) = (-6, 2)$

5) Complete the following dilations using the number line.



a) $D_{D, 3}(\underline{\quad}) = (C)$ b) $D_{D, -8}(G) = (\underline{\quad})$ c) $D_{D, \frac{3}{4}}(B) = (\underline{\quad})$