Name _____   Date _____

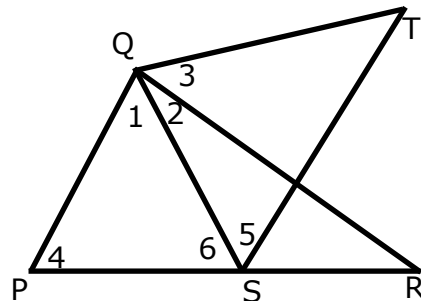## Triangle Proofs - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

Given m∠4 = m∠6

m∠1 = m∠3

m∠4 = m∠5

1. Is ∠R ≅ ∠T

2. Is ∠SQT ≅ ∠PQR

Given ∠BAC ≅ ∠DAE

AE ≅ AC

A is the midpoint BD

3. Is ΔBEA ≅ ΔDCA?

4. Sum of ∠1 , ∠2 and ∠3 is 160°
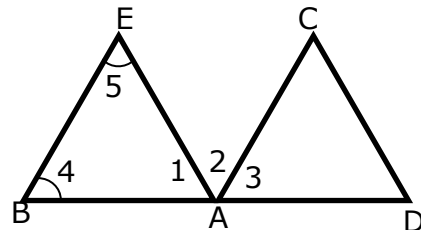
5. If the value of ∠4 is 60°. Find the value of ∠5 in the figure.

Given GK ≅ ML, ∠GKM ≅ ∠LMK

6. Is ΔGKM ≅ ΔLMK ?

7. line GK || GM
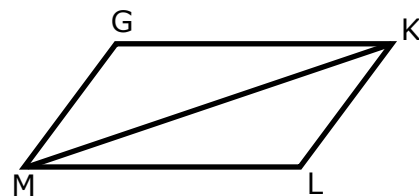
Given AB ⊥ BE, DE ⊥ BE,

AC ≅ DC and ∠BAC ≅ ∠EDC

8. Is ΔABC ≅ ΔDEC?

9. AB = BC?

10. AC ≅ CD?