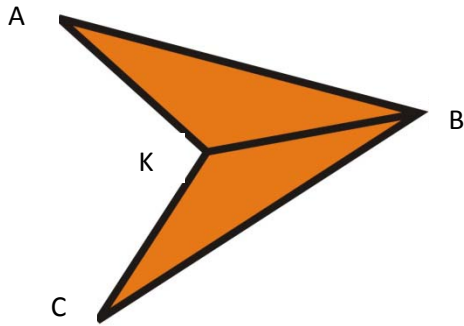


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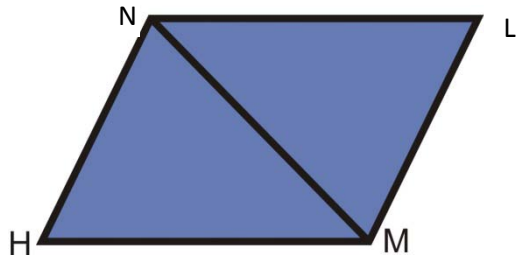
Topic : Beginning congruent Triangle Proofs - Worksheet 1



**Given:**  $AK \approx CK$  &

$\angle AKB \approx \angle KCB$

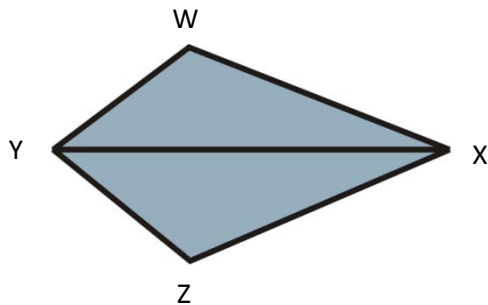
**Prove:**  $\triangle BAK \approx \triangle BCK$



**Given:**  $\square MHNL$  is parallelogram &

$HN \approx ML$

**Prove:**  $\triangle MLN \approx \triangle MHN$



**Given:**  $YW \approx YZ$ ,

$XY \approx XY$

**Prove:**  $\triangle YWZ \approx \triangle YZX$



Name: \_\_\_\_\_

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Topic : Beginning congruent Triangle Proofs - Worksheet1

**ANSWERS**

1.

$$AK \approx CK$$

$$\angle AKB \approx \angle KCB$$

$$KB \approx KB$$

$$\triangle BAK \approx \triangle CKB$$

2.

$$LN \approx MH$$

$$HN \approx ML$$

$$MN \approx MN$$

$$\triangle MLN \approx \triangle MHT$$

3.

$$XY \approx XY$$

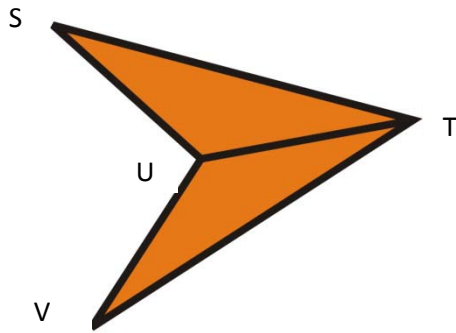
$$YW \approx YZ$$



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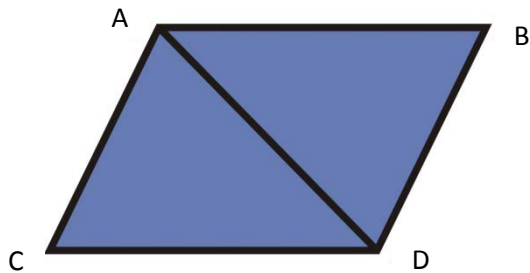
Topic : Beginning congruent Triangle Proofs - Worksheet 2



**Given:**  $SU \approx VU$  &

$\angle SUT \approx \angle VUT$

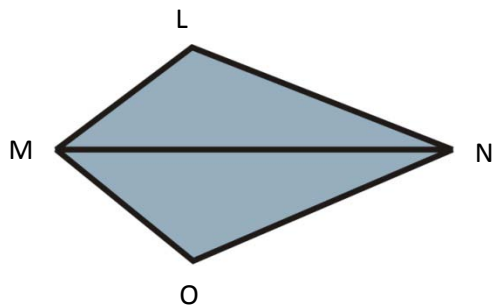
**Prove:**  $\triangle TUS \approx \triangle TVT$



**Given:**  $\square ABCD$  is parallelogram &

$AC \approx DB$

**Prove:**  $\triangle DCA \approx \triangle CAB$



**Given:**  $LM \approx LO$ ,

$MN \approx MN$

**Prove:**  $\triangle MNO \approx \triangle LNO$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Beginning congruent Triangle Proofs - Worksheet2

**ANSWERS**

1.

$$SU \approx VU$$

$$\angle SUT \approx \angle VUT$$

$$UT \approx UT$$

$$\triangle TUS \approx \triangle TVT$$

2.

$$BA \approx DC$$

$$CA \approx DB$$

$$DA \approx DA$$

$$\triangle DBA \approx \triangle DCA$$

3.

$$MN \approx MN$$

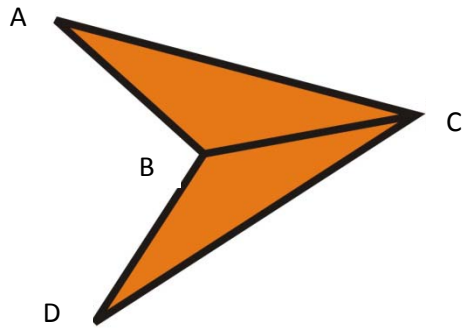
$$ML \approx MO$$



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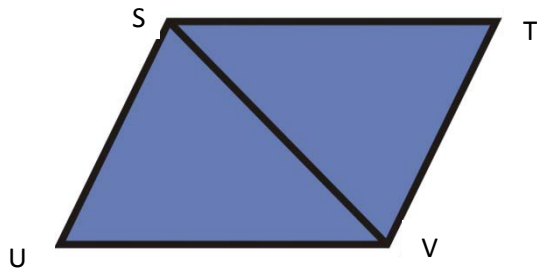
Topic : Beginning congruent Triangle Proofs - Worksheet 3



**Given:**  $AB \approx DB$  &

$\angle CAB \approx \angle DBC$

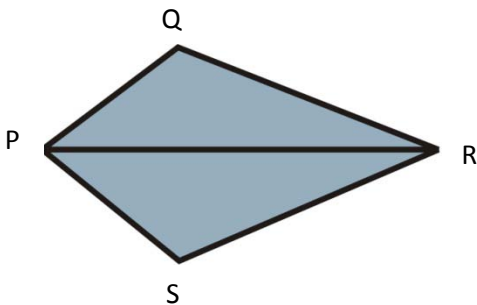
**Prove:**  $\triangle CAB \approx \triangle DBC$



**Given:**  $\square STVU$  is parallelogram &

$US \approx VT$

**Prove:**  $\triangle VTS \approx \triangle VUS$



**Given:**  $PQ \approx PS$ ,

$PR \approx PR$

**Prove:**  $\triangle PSR \approx \triangle PQR$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Beginning congruent Triangle Proofs - Worksheet 3

**ANSWERS**

1.

$$AB \approx DB$$

$$\angle ABC \approx \angle DBC$$

$$BC \approx BC$$

$$\triangle CAB \approx \triangle DBC$$

2.

$$ST \approx UV$$

$$US \approx VT$$

$$SV \approx SV$$

$$\triangle VTS \approx \triangle VUS$$

3.

$$PR \approx PR$$

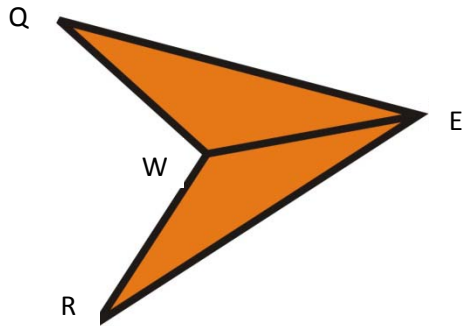
$$PQ \approx PS$$



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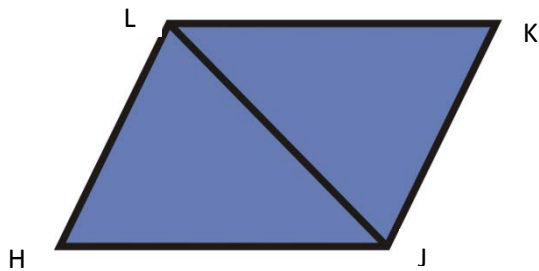
Topic : Beginning congruent Triangle Proofs - Worksheet 4



**Given:**  $QW \approx RW$  &

$\angle QWE \approx \angle REW$

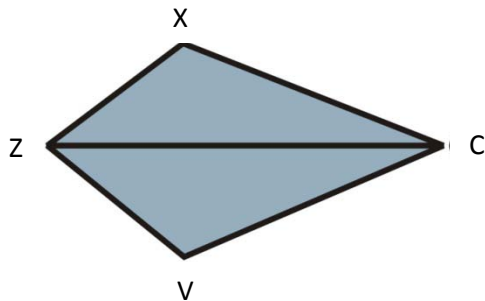
**Prove:**  $\triangle EQW \approx \triangle ERW$



**Given:**  $\square LKJH$  is parallelogram &

$HL \approx JK$

**Prove:**  $\triangle JKL \approx \triangle JHL$



**Given:**  $ZX \approx ZV$ ,

$ZC \approx ZC$

**Prove:**  $\triangle ZXC \approx \triangle ZVC$



Name: \_\_\_\_\_

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Topic : Beginning congruent Triangle Proofs - Worksheet4

**ANSWERS**

1.

$$QW \approx RW$$

$$\angle QWE \approx \angle RWE$$

$$WE \approx WE$$

$$\triangle EQW \approx \triangle RWE$$

2.

$$KL \approx JH$$

$$HL \approx JK$$

$$JL \approx JL$$

$$\triangle JKL \approx \triangle JHL$$

3.

$$ZC \approx ZC$$

$$ZX \approx ZV$$

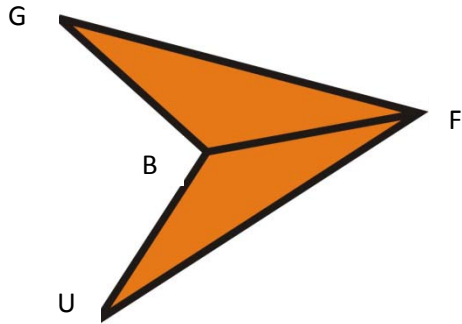




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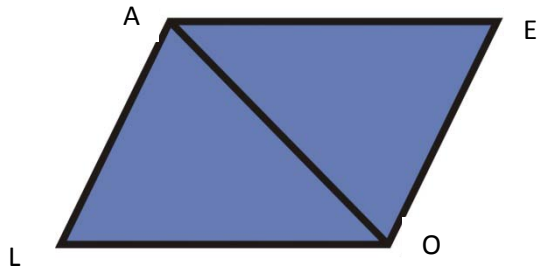
Topic : Beginning congruent Triangle Proofs - Worksheet 5



**Given:**  $GB \approx UB$  &

$\angle GBF \approx \angle UBF$

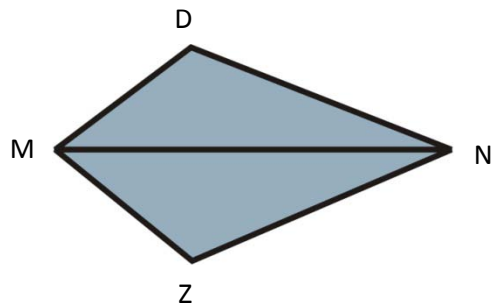
**Prove:**  $\triangle GFB \approx \triangle UFB$



**Given:**  $\square AEOL$  is parallelogram &

$LA \approx OE$

**Prove:**  $\triangle OEA \approx \triangle OLA$



**Given:**  $MD \approx MZ$ ,

$MN \approx MN$

**Prove:**  $\triangle MZA \approx \triangle MDN$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Beginning congruent Triangle Proofs - Worksheet5

**ANSWERS**

1.

$$\mathbf{GB \approx UB}$$

$$\mathbf{\angle GBF \approx \angle UBF}$$

$$\mathbf{BF \approx BF}$$

$$\mathbf{\Delta FGB \approx \Delta UBF}$$

2.

$$\mathbf{EA \approx OL}$$

$$\mathbf{LA \approx OE}$$

$$\mathbf{OA \approx OA}$$

$$\mathbf{\Delta OEA \approx \Delta OLA}$$

3.

$$\mathbf{MN \approx MN}$$

$$\mathbf{MD \approx MZ}$$

