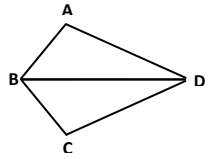
Name: _____ Date _____

Topic: *Proofs Involving Congruent Triangle - Worksheet 1*

1

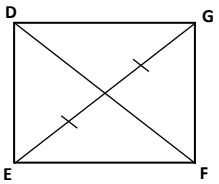


Given: AB ≈ BC &

<DBA ≈ <DBC

Prove: ΔDAB ≈ ΔDCB

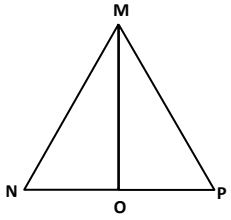
2



Given: □DGFE is a rectangle

Prove: ΔDGF ≈ ΔDEF

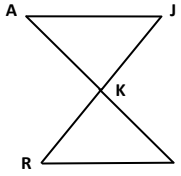
3



Given: MN ≈ MP & NO ≈ PO

Prove: ΔNOM ≈ ΔPOM

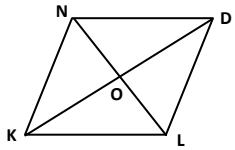
4



Given: <JKA ≈ <RKS, JK ≈ RK & AK ≈ SK

Prove: ΔAJK ≈ ΔSRK

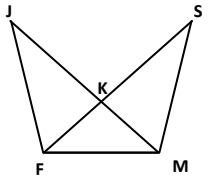
5



Given: □KNDL is rhombus

Prove: ΔDNO ≈ ΔKLO

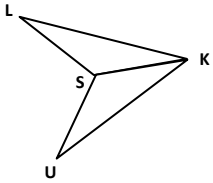
6



Given: JK ≈ SK, <JKF ≈ <SKM & FK ≈ KM

Prove: ΔJKF ≈ ΔSKM

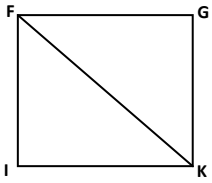
7



Given: KL ⊥ KU and LS ≈ US

Prove: ΔKSL ≈ ΔKSU

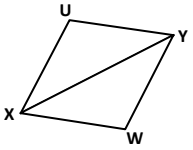
8



Given: FG ≈ IK, FI ≈ GK

Prove: ΔFGK ≈ ΔFIK

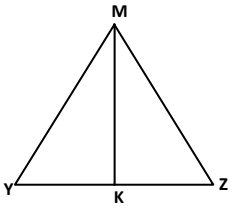
9



Given: UY ≈ XW & UX ≈ YW

Prove: ΔUXY ≈ ΔWXY

10



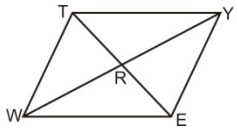
Given: YM ≈ ZM and MK is altitude of ΔYMZ

Prove: ΔYKM ≈ ΔZKM

Name: _____ Date _____

Topic: *Proofs Involving Congruent Triangle - Worksheet 2*

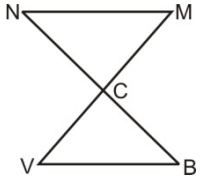
1



Given: □WTYE is rhombus

Prove: ΔWRE ≈ ΔYRT

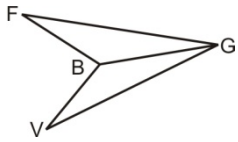
2



Given: <MCN ≈ <VCB, MC ≈ VC & NC ≈ BC

Prove: ΔNMC ≈ ΔBVC

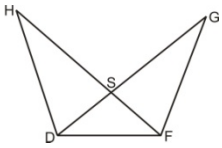
3



Given: <FGB ≈ <VGB and FB ≈ VB

Prove: ΔGBF ≈ ΔGBV

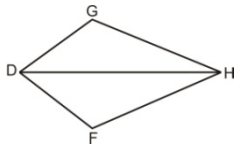
4



Given: HS ≈ GS, <HSD ≈ <GSF & DS ≈ SF

Prove: ΔHSD ≈ ΔGSF

5

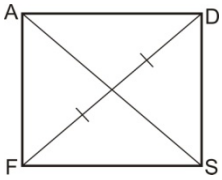


Given: GD ≈ FD &

<HDG ≈ <HDF

Prove: ΔHGD ≈ ΔHFD

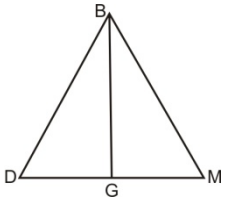
6



Given: □ADSF is a rectangle

Prove: ΔADS ≈ ΔAFS

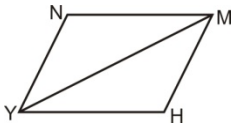
7



Given: BD ≈ BM & DG ≈ MG

Prove: ΔDGB ≈ ΔMGB

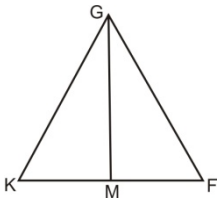
8



Given: NM ≈ YH & NY ≈ MH

Prove: ΔNYM ≈ ΔHYM

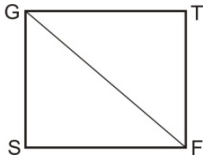
9



Given: KG ≈ FG and GM is altitude of ΔKGF

Prove: ΔKMG ≈ ΔFMG

10



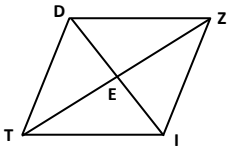
Given: GT ≈ SF, GS ≈ TF

Prove: ΔGTF ≈ ΔGSF

Name: _____ Date _____

Topic: *Proofs Involving Congruent Triangle - Worksheet 3*

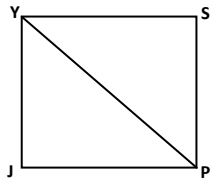
1



Given: □TDZI is rhombus

Prove: ΔDEZ ≈ ΔTEI

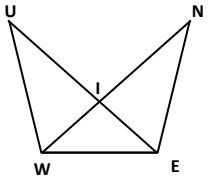
2



Given: YS ≈ JP, YJ ≈ SP

Prove: ΔYSP ≈ ΔYJP

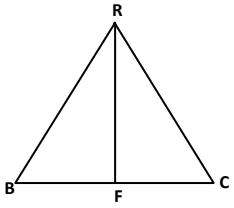
3



Given: UI ≈ NI, <UIW ≈<NIE & WI ≈ KE

Prove: ΔUIW ≈ ΔNIE

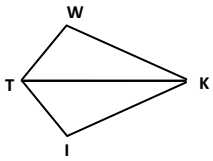
4



Given: BR≈CR and RF is altitude of ΔBRC

Prove: ΔBFR ≈ ΔCFR

5

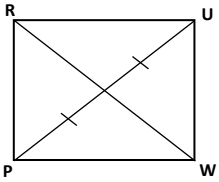


Given: WT≈ TI&

<KTW ≈ <KTI

Prove: ΔKWT ≈ ΔKIT

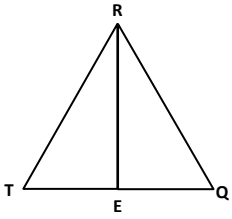
6



Given: □PRUW is a rectangle

Prove: ΔRUW ≈ ΔRPW

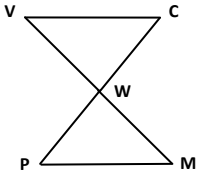
7



Given: RT≈RQ & TE ≈QE

Prove: ΔTER ≈ ΔQER

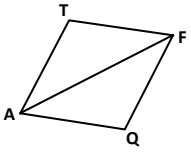
8



Given: <CWV≈<MWP, CW ≈ WP & VW ≈ WM

Prove: ΔVCW ≈ ΔMPW

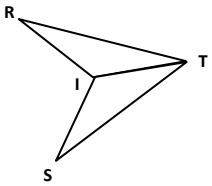
9



Given: TF≈AQ&TA≈FQ

Prove: ΔTAF ≈ ΔQAF

10



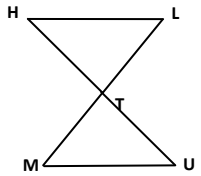
Given: <RTI ≈ <STI and RI≈SI

Prove: ΔTIR ≈ ΔTIS

Name: _____ Date _____

Topic: *Proofs Involving Congruent Triangle - Worksheet 4*

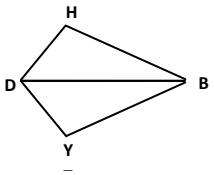
1



Given: <LTH≈ <MTU, LT ≈ TM & HT ≈ UT

Prove: ΔHLT ≈ ΔUMT

2

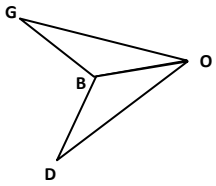


Given: HD ≈ DT &

<BDH ≈ <BDY

Prove: ΔBHD ≈ ΔBYD

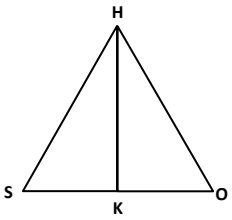
3



Given: <GOB ≈ <DOB and GB ≈ BD

Prove: ΔOBG ≈ ΔOBD

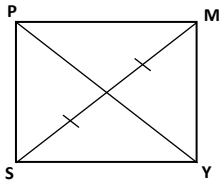
4



Given: HS ≈ HO & KS ≈ KO

Prove: ΔSKH ≈ ΔOKH

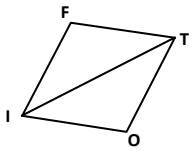
5



Given: □PMYS is a rectangle

Prove: ΔPMY ≈ ΔPSY

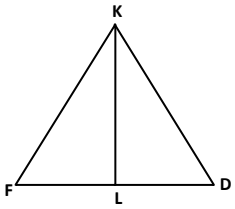
6



Given: FT ≈ OI & FI ≈ TO

Prove: ΔFIT ≈ ΔOIT

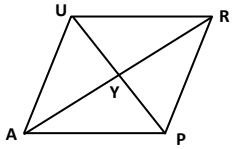
7



Given: FK ≈ DK and KL is altitude of ΔFKD

Prove: ΔFLK ≈ ΔDLK

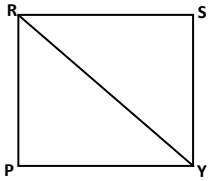
8



Given: □AURP is rhombus

Prove: ΔRUY ≈ ΔAPY

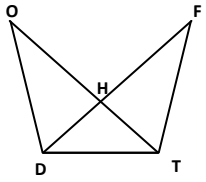
9



Given: RD ≈ PY, RP ≈ SY

Prove: ΔRSY ≈ ΔRPY

10



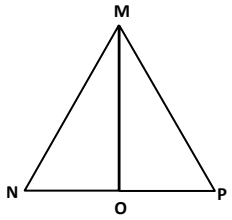
Given: OH ≈ HF, <OHD ≈ <FHT & HD ≈ HT

Prove: ΔOHD ≈ ΔFHT

Name: _____ Date _____

Topic: *Proofs Involving Congruent Triangle - Worksheet 5*

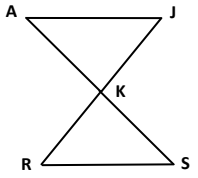
1



Given: MN ≈ MP & NO ≈ PO

Prove: ΔNOM ≈ ΔPOM

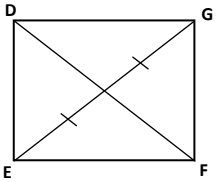
2



Given: <JKA ≈ <RKS, JK ≈ RK & AK ≈ SK

Prove: ΔAJK ≈ ΔSRK

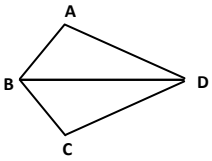
3



Given: □DGFE is a rectangle

Prove: ΔDGF ≈ ΔDEF

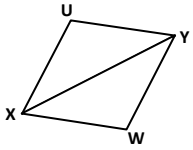
4



Given: AB ≈ BC & <DBA ≈ <DBC

Prove: ΔDAB ≈ ΔDCB

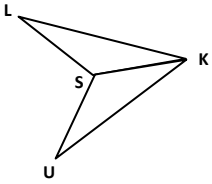
5



Given: UY ≈ XW & UX ≈ YW

Prove: ΔUXY ≈ ΔWXY

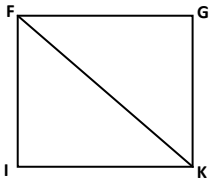
6



Given: <LKS ≈ <UKS and LS ≈ US

Prove: ΔKSL ≈ ΔKSU

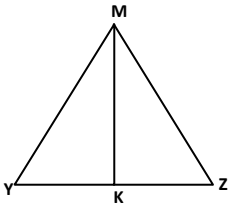
7



Given: FG ≈ IK, FI ≈ GK

Prove: ΔFGK ≈ ΔFIK

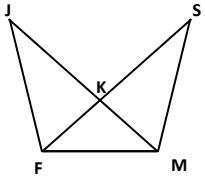
8



Given: YM ≈ ZM and MK is altitude of ΔYMZ

Prove: ΔYKM ≈ ΔZKM

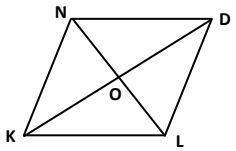
9



Given: JK ≈ SK, <JKF ≈ <SKM & FK ≈ KM

Prove: ΔJKF ≈ ΔSKM

10



Given: □KNDL is rhombus

Prove: ΔDNO ≈ ΔKOL