# Activity 3.4.1: SAS Triangle Congruence Postulate

Total points = 20

#### A. Answers

1.  $\overline{DT} \cong \overline{ST} \checkmark$ ∠DTU ≅ ∠STU **√**  $\overline{UT} \cong \overline{UT} \checkmark$ .:. △DTU ≅ △STU **√** 

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{QS} \cong \overline{SQ} \checkmark$ 

 $\therefore \triangle RQS \cong \triangle DSQ \checkmark$ 

3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ ∴ △*UVW* ≅ △*KVM* ✓

4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC}\cong \overline{JL}$   $\checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

#### B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

3.  $\overline{GX} \cong \overline{BX} \checkmark$ 

2.  $\angle TAC \cong \angle TAK \checkmark$ 

4.  $\overline{BM} \cong \overline{NA} \checkmark$ 

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1.  $\overline{DT} \cong \overline{ST} \checkmark$ ∠DTU≅∠STU **√**  $\overline{UT}\cong\overline{UT}\checkmark$ ∴ △DTU ≅ △STU **√** 

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{QS} \cong \overline{SQ} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ ∴ △*UVW* ≅ △*KVM* ✓

4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC}\cong \overline{JL}$   $\checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

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#### A. Answers

 DT ≅ ST ✓ ∠DTU ≅ ∠STU ✓  $\overline{UT}\cong \overline{UT}\checkmark$ .:. △DTU ≅ △STU **√** 

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{QS} \cong \overline{SQ} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$ ∠UVW ≅ ∠KVM ✓  $\overline{WV} \cong \overline{MV} \checkmark$  $\therefore \triangle UVW \cong \triangle KVM \checkmark$ 

4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC} \cong \overline{JL} \checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

# B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

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#### A. Answers

1.  $\overline{DT} \cong \overline{ST} \checkmark$ ∠DTU≅∠STU **√**  $\overline{\mathit{UT}}\cong\overline{\mathit{UT}}$   $\checkmark$ ∴ △*DTU* ≅ △*STU* ✓

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{\Omega S} \cong \overline{S}\overline{\Omega} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ ∴ △*UVW* ≅ △*KVM* ✓

4.  $\overline{AB} \cong \overline{JK} \checkmark$ . ∠A ≅ ∠J **√**  $\overline{AC}\cong \overline{JL}$   $\checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

#### B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

2.  $\angle TAC \cong \angle TAK \checkmark$ 

3.  $\overline{GX} \cong \overline{BX} \checkmark$ 

4.  $\overline{BM} \cong \overline{NA} \checkmark$ 

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#### A. Answers

1.  $\overline{DT} \cong \overline{ST} \checkmark$ ∠DTU ≅ ∠STU ✓  $\overline{UT} \cong \overline{UT} \checkmark$ 

*∴* △*DTU* ≅ △*STU* ✓

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{QS}\cong \overline{SQ}$   $\checkmark$ 

 $\therefore \triangle RQS \cong \triangle DSQ \checkmark$ 

3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ 

 $\therefore \triangle UVW \cong \triangle KVM \checkmark$ 4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC} \cong \overline{JL} \checkmark$ 

 $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

#### B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

3.  $\overline{GX} \cong \overline{BX} \checkmark$ 2.  $\angle TAC \cong \angle TAK \checkmark$ 4.  $\overline{BM} \cong \overline{NA} \checkmark$ 

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2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{QS} \cong \overline{SQ} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ .:. △*UVW* ≅ △*KVM* ✓

4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC}\cong \overline{JL}$   $\checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

# B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

3.  $\overline{GX} \cong \overline{BX} \checkmark$ 

2. ∠TAC ≅ ∠TAK ✓ 4.  $\overline{BM} \cong \overline{NA} \checkmark$ 

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 $\therefore \triangle DTU \cong \triangle STU \checkmark$ 

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 $\overline{QS} \cong \overline{SQ} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$  $\angle UVW \cong \angle KVM \checkmark$  $\overline{WV} \cong \overline{MV} \checkmark$ ∴ △*UVW* ≅ △*KVM* ✓

4.  $\overline{AB} \cong \overline{JK} \checkmark$  $\angle A \cong \angle J \checkmark$  $\overline{AC} \cong \overline{JL} \checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

# B. Answers

1.  $\overline{CF} \cong \overline{AL} \checkmark$ 

2.  $\angle TAC \cong \angle TAK \checkmark$ 

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1.  $\overline{DT} \cong \overline{ST} \checkmark$ ∠DTU ≅ ∠STU ✓  $\overline{\mathit{UT}}\cong\overline{\mathit{UT}}$   $\checkmark$  $\therefore \triangle DTU \cong \triangle STU \checkmark$ 

2.  $\overline{RQ} \cong \overline{DS} \checkmark$  $\angle RQS \cong \angle DSQ \checkmark$  $\overline{\Omega S} \cong \overline{S}\overline{\Omega} \checkmark$  $\therefore \triangle RQS \cong \triangle DSQ \checkmark$  3.  $\overline{UV} \cong \overline{KV} \checkmark$ ∠UVW ≅ ∠KVM ✓  $\overline{WV} \cong \overline{MV} \checkmark$ ∴ △*UVW* ≅ △*KVM* ✓ 4.  $\overline{AB} \cong \overline{JK} \checkmark$ 

 $\angle A \cong \angle J \checkmark$  $\overline{AC} \simeq \overline{II} \checkmark$  $\therefore \triangle ABC \cong \triangle JKL \checkmark$ 

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