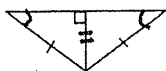


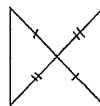
Review for 1st Semester Final Exam (Day 2)

1. Match each set of congruent triangles with the reason they are congruent.

1) D, E

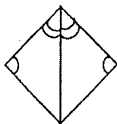


2) B



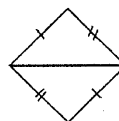
A) SSS

3) D



B) SAS

4) A



C) ASA

5) F



D) AAS

6) C, D



E) HL

F) None

2. Match each statement with its property.

1) D $\overline{DQ} \cong \overline{DQ}$

A) Symmetric Property of Congruence

2) B $\angle A \cong \angle C$ and $\angle C \cong \angle F$
So $\angle A \cong \angle F$

B) Transitive Property of Congruence

3) F $AB = 7$, so $7 = AB$

C) Reflexive Property of Equality

4) A $\angle Q \cong \angle T$
So $\angle T \cong \angle Q$

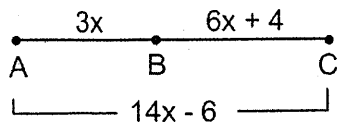
D) Reflexive Property of Congruence

5) E $x + y = 10$ and $x = 3$
So $3 + y = 10$

E) Substitution Property of Equality

F) Symmetric Property of Equality

3. Solve for x and justify each step.



1) $AB + BC = AC$

2) $AB = 3x$
 $BC = 6x + 4$
 $AC = 14x - 6$

3) $3x + 6x + 4 = 14x - 6$

4) $9x + 4 = 14x - 6$

5) $-9x \quad -9x$

6) $4 = 5x - 6$

7) $+6 \quad +6$

8) $10 = 5x$

9) $2 = x$

10) $2 = x$

1. Segment Add. Post.

2. Given

3. Substitution Prop. =

4. Simplify

5. subtraction prop. =

6. Simplify

7. Addition prop =

8. Simplify

9. Division prop =

10. Simplify

Statements

Reasons