Name_____

Geometry - Practice Exam 3 Fall 2019
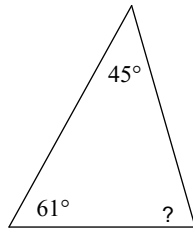
Date_____ Period_____

Classify each triangle by its angles and sides.

1)

2.6
65°
5.6
25° 6.2
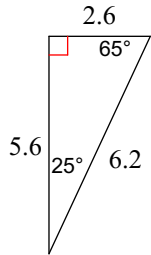
Find the measure of each angle indicated.

2)

45°

61°   ?

Find the measure of angle A.

3) A

x + 16

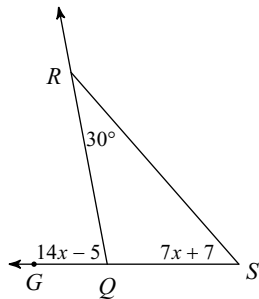x + 116   50°
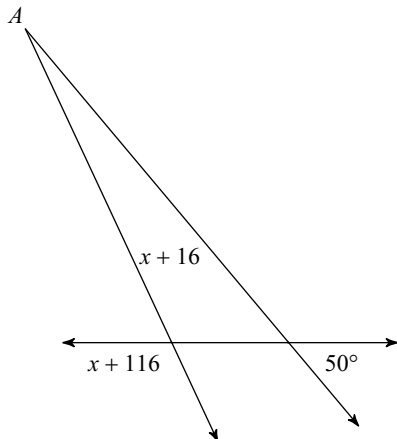
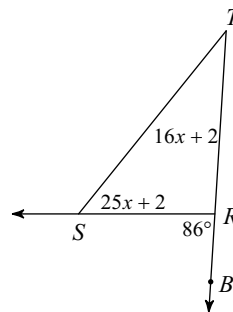**Find the measure of each angle indicated.**

4)
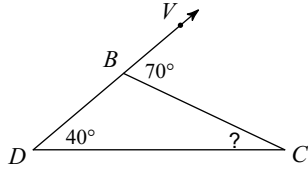
Find the measure of the angle indicated.

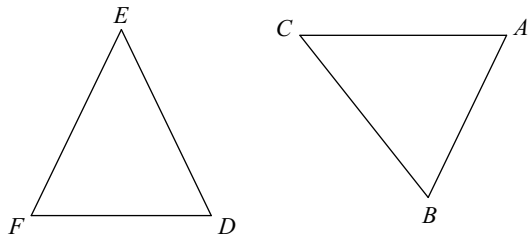5) Find $m\angle GQR$.

6) Find $m\angle T$.

Complete each congruence statement by naming the corresponding angle or side.
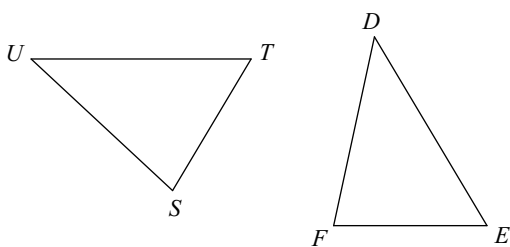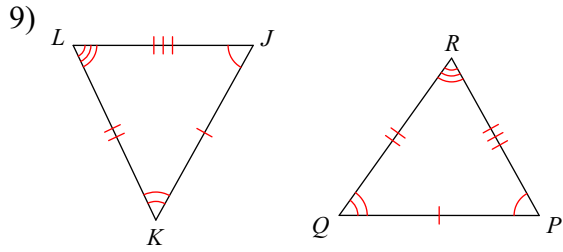
7) $\triangle DFE \cong \triangle ABC$

$\angle F \cong$?

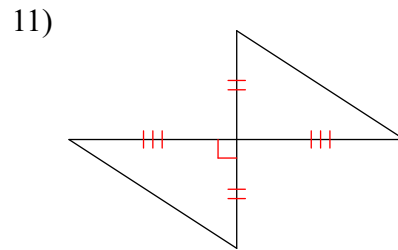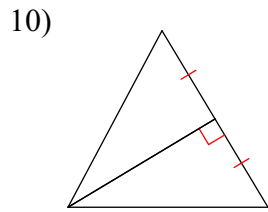**Mark the angles and sides of each pair of triangles to indicate that they are congruent.**

8) $\triangle UTS \cong \triangle DEF$

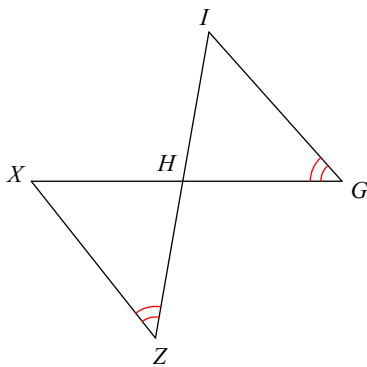**Write a statement that indicates that the triangles in each pair are congruent.**

9)

Determine if the two triangles are congruent. If they are, state how you know.
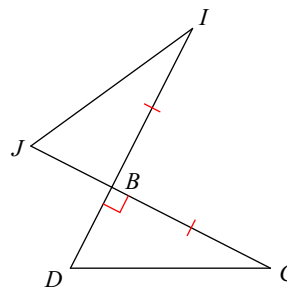
10)

11)

State what additional information is required in order to know that the triangles are congruent for the reason given.
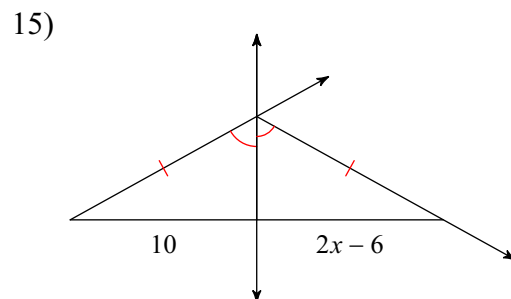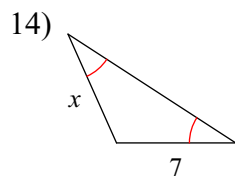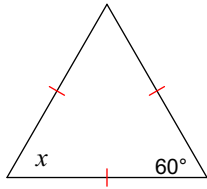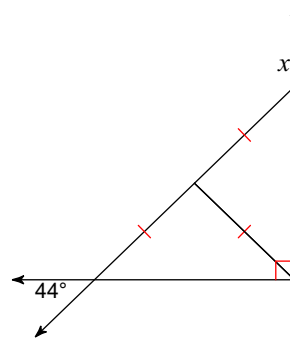
12) ASA

13) LL
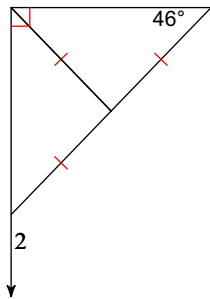

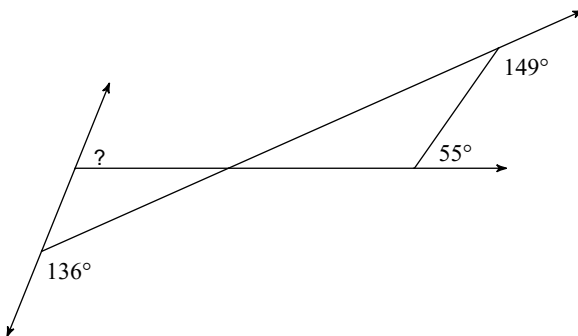**Find the value of *x*.**
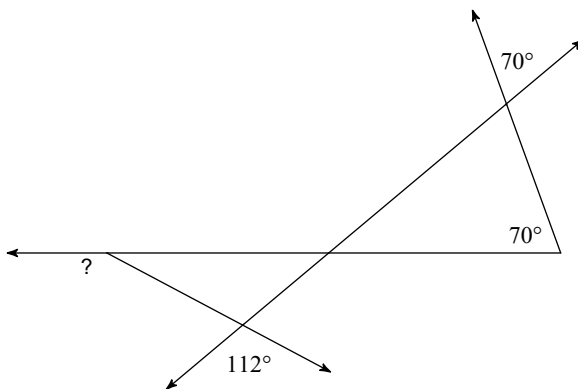
14)

15)

16)

17)

18) $m\angle 2 = x + 145$

Find the measure of each angle indicated.

19)

20)

Answers to Geometry - Practice Exam 3 Fall 2019

1) right scalene

2) 74°

3) 15°

4) 30°

5) 79°
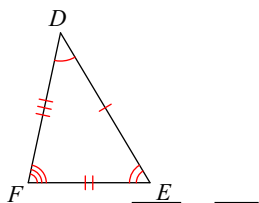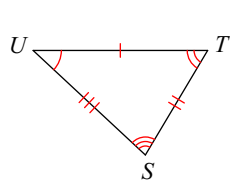
6) 34°

7) ∠B

8)

9) $\triangle JKL \cong \triangle PQR$

10) SAS

11) LL

12) $\overline{GH} \cong \overline{ZH}$

13) $\overline{DB} \cong \overline{JB}$

14) 7

15) 8

16) 60°

17) 134°

18) −9

19) 68°

20) 152°