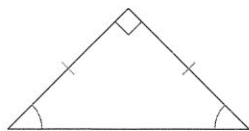


4A Quiz Review: Triangles & Congruence Statements

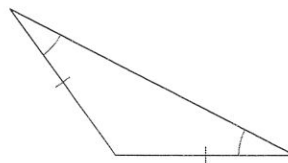
Date _____

Classify each triangle by its angles and sides. Equal sides and equal angles, if any, are indicated in each diagram.

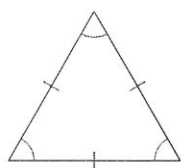
1)



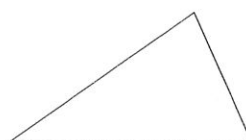
2)



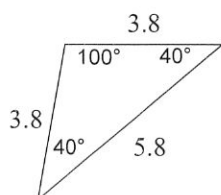
3)



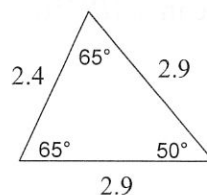
4)



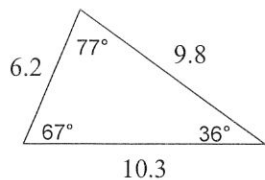
5)



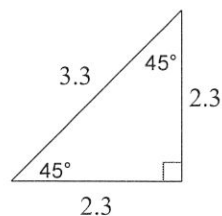
6)



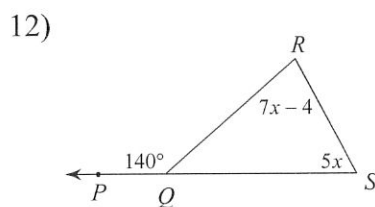
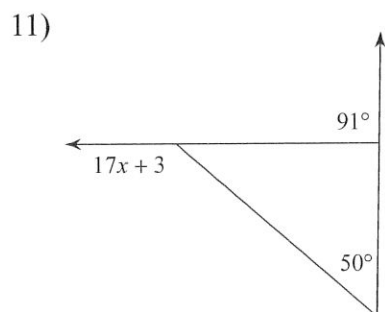
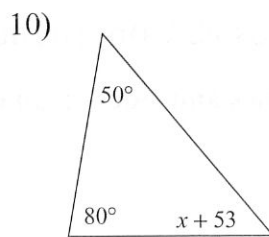
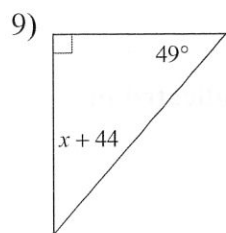
7)



8)



Solve for x .



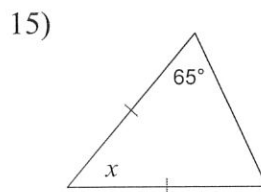
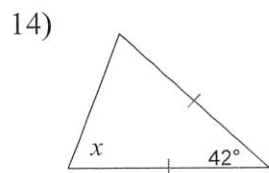
13) Find the measure of each angle in $\triangle ABC$ if:

$$\angle A = (x)^\circ$$

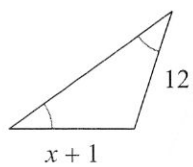
$$\angle B = (1.5x + 15)^\circ$$

$$\angle C = (3.5x - 15)^\circ$$

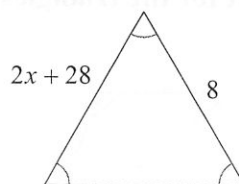
Find the value of x .



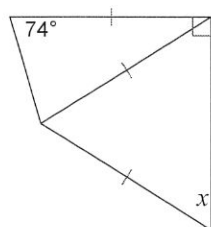
16)



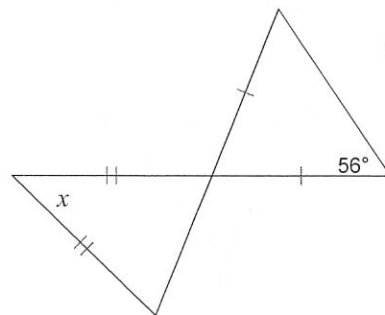
17)



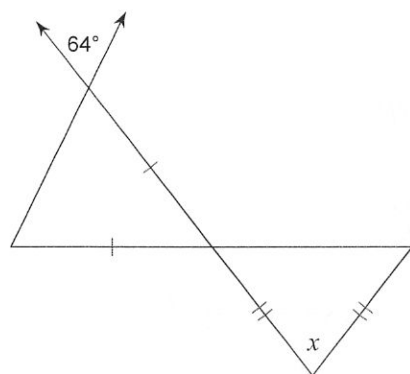
18)



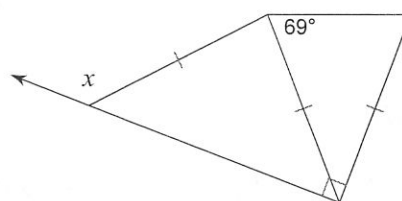
19)



20)

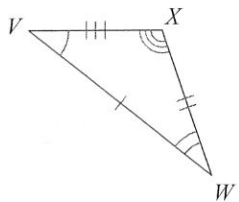
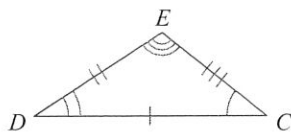


21)

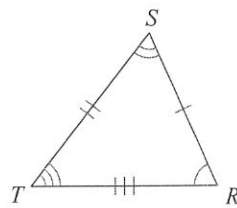
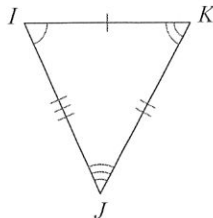


Write a congruence statement for the triangles below.

22)

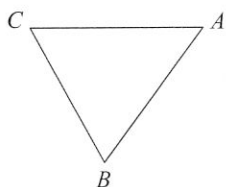
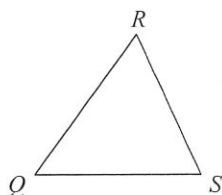


23)



Name the 3 pairs of corresponding angle and 3 pairs of corresponding sides

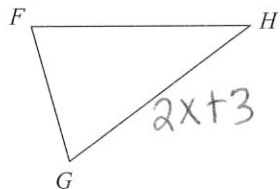
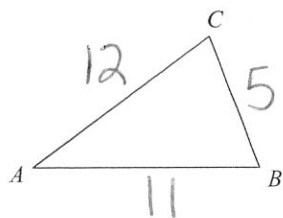
24) $\triangle RSQ \cong \triangle CBA$



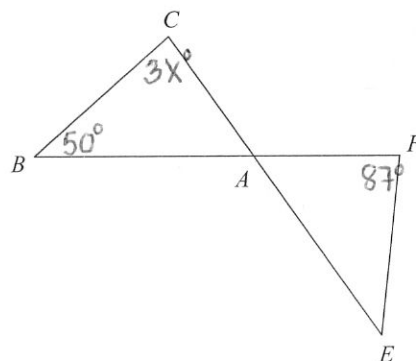
25) $\triangle DBC \cong \triangle HIJ$

Solve for x.

26) $\triangle CBA \cong \triangle FGH$



27) $\triangle ABC \cong \triangle AEF$



Answers to 4A Quiz Review: Triangles & Congruence Statements

- | | | | |
|--|--|---|---|
| 1) right isosceles | 2) obtuse isosceles | 3) equilateral | 4) acute scalene |
| 5) obtuse isosceles | 6) acute isosceles | 7) acute scalene | 8) right isosceles |
| 9) -3 | 10) -3 | 11) 8 | 12) 12 |
| 13) $\angle A = 30^\circ$; <i>angle B</i> = 60° ; <i>angle C</i> = 90° | | 14) 69° | 15) 50° |
| 16) 11 | 17) -10 | 18) 58° | 19) 44° |
| 20) 76° | 21) 132° | 22) $\triangle CDE \cong \triangle VWX$ | 23) $\triangle IKJ \cong \triangle RST$ |
| 24) $\angle R \cong \angle C$
$\angle S \cong \angle B$
$\angle Q \cong \angle A$
$\overline{RS} \cong \overline{CB}$
$\overline{RQ} \cong \overline{CA}$
$\overline{SQ} \cong \overline{BA}$ | 25) $\angle D \cong \angle H$
$\angle B \cong \angle I$
$\angle C \cong \angle J$
$\overline{DB} \cong \overline{HI}$
$\overline{DC} \cong \overline{HJ}$
$\overline{BC} \cong \overline{IJ}$ | 26) $x = 4$ | 27) $x = 29$ |

