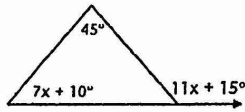


UNIT 2 QUIZ REVIEW

1. Solve for x



$$11x + 15 = 45 + 7x + 10$$

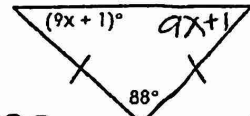
$$11x + 15 = 55 + 7x$$

$$-7x - 15 \quad -15 \quad -7x$$

$$4x = 40$$

$$x = 10$$

2. Solve for x



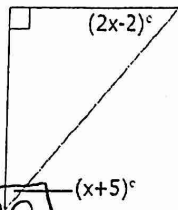
$$9x + 1 + 9x + 1 + 88 = 180$$

$$18x + 90 = 180$$

$$18x = 90$$

$$x = 5$$

3. Solve for x



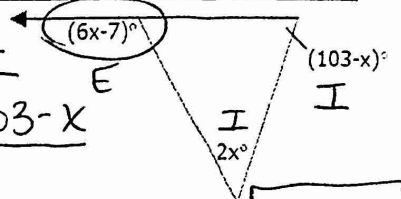
$$90 + 2x - 2 + x + 5 = 180$$

$$3x + 93 = 180$$

$$3x = 87$$

$$x = 29$$

4. Solve for x



$$E \cong I + I$$

$$6x - 7 = 2x + 103 - x$$

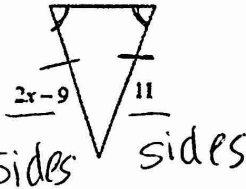
$$6x - 7 = x + 103$$

$$-x + 7 \quad -x + 7$$

$$5x = 110$$

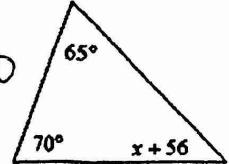
$$x = 22$$

5. Solve for x



$$2x - 9 = 11$$

6. Solve for x



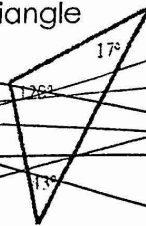
$$65 + 70 + x + 56 = 180$$

7. Classify the triangle (by angle)



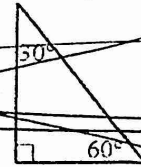
acute

8. Classify the triangle (by angle)



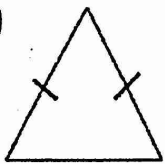
obtuse

9. Classify the triangle (by angle)



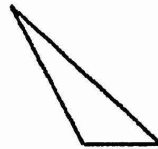
Right

10. Classify the triangle (by side lengths)



isosceles

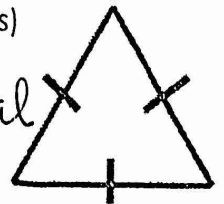
11. Classify the triangle (by side lengths)



scalene

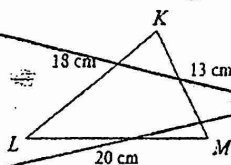
No Sides Congruent

12. Classify the triangle (by side lengths)



Equilateral

13. List the angles from smallest to largest.



14. Can the following lengths make a triangle? 9, 14, 22
Explain, why or why not?

15. For the triangle, list the angles in order from smallest to largest measure.

In $\triangle XYZ$
 $YZ = 16$
 $XZ = 8$
 $XY = 13$

16. For the triangle, list the sides in order from shortest to longest measure.

In $\triangle QRS$
 $m\angle Q = 82^\circ$
 $m\angle R = 70^\circ$
 $m\angle S = 28^\circ$

Be able to use distance formula to identify the type of \triangle .
 (scalene, isos., equilateral)

17. Give an example of three side lengths that would not make a triangle. Explain how you know.

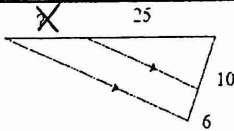
- Know the angles created from parallel lines
- Identify the relationship between angles in parallel lines (supplementary or congruent)

18. Solve for x

$$\frac{x}{25} = \frac{6}{10}$$

$$10x = 150$$

$$\boxed{x = 15}$$

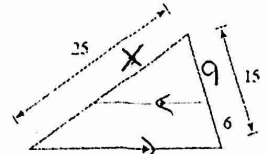


19. Solve for x

~~$$\frac{x}{25} = \frac{9}{15}$$~~

$$15x = 225$$

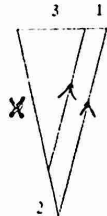
$$\boxed{x = 15}$$



20. Solve for x

$$\frac{x}{2} = \frac{3}{1}$$

$$\boxed{6 = x}$$

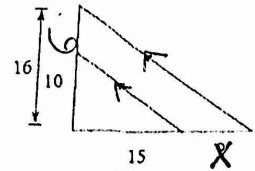


21. Solve for x

$$\frac{x}{15} = \frac{6}{10}$$

$$10x = 90$$

$$\boxed{x = 9}$$



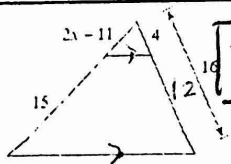
22. Solve for x

~~$$\frac{2x-11}{15} = \frac{4}{12}$$~~

$$24x - 132 = 60$$

$$\frac{24x}{24} = \frac{192}{24}$$

$$\boxed{x = 8}$$

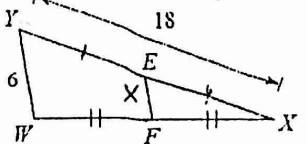


23. Find the measure of EF midsegment

little = $\frac{1}{2}$ (Big)

$$EF = \frac{1}{2}(YW)$$

$$\boxed{3}$$



24. Find the measure of LN midseg.

Big = 2 "little"

$$x + 30 = 2(x + 19)$$

$$x + 30 = 2x + 38$$

$$-x - 38 = -x - 38$$

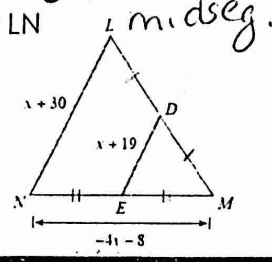
Then plug in x

$$\boxed{-8 = x}$$

$$LN = x + 30$$

$$-8 + 30$$

$$\boxed{22}$$



25. Find the measure of CD

2 "little" = Big

$$2(x + 14) = x + 19$$

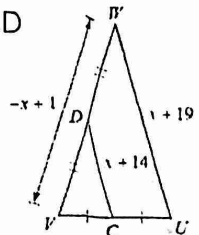
$$2x + 28 = x + 19$$

Then plug in x

$$x + 28 = 19$$

$$-28 - 28$$

$$x = -9$$



$$CD = x + 14$$

$$-9 + 14$$

$$\boxed{x = 5}$$