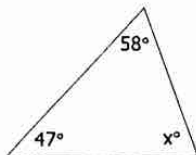


Worksheet Triangle Sum and Exterior angle Theorem

Name _____ Period _____

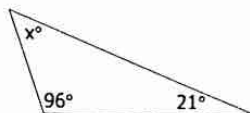
I. Find the value of "x".

1) $x = \underline{75}$



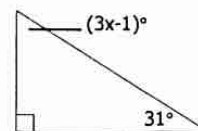
$$47 + 58 + x = 180$$

2) $x = \underline{63}$



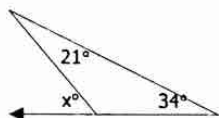
$$x + 96 + 21 = 180$$

3) $x = \underline{20}$



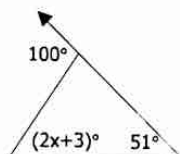
$$3x - 1 + 90 + 31 = 180$$

4) $x = \underline{55}$



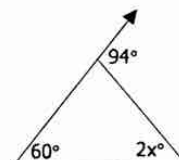
$$x = 21 + 34$$

5) $x = \underline{23}$



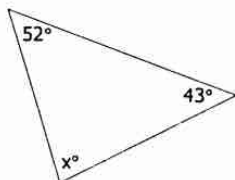
$$2x + 3 + 51 = 100$$

6) $x = \underline{17}$



$$60 + 2x = 94$$

7) $x = \underline{85}$



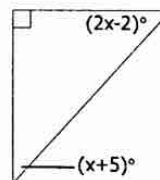
$$52 + x + 43 = 180$$

8) $x = \underline{30}$



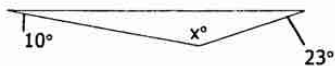
$$x + 2x + 3x = 180$$

9) $x = \underline{29}$



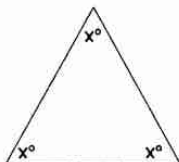
$$x + 5 + 2x - 2 + 90 = 180$$

10) $x = \underline{147}$



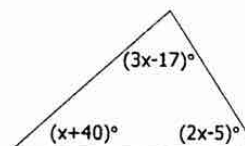
$$10 + x + 23 = 180$$

11) $x = \underline{60}$



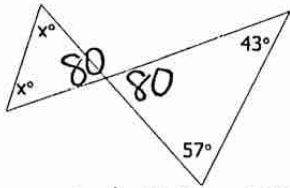
$$x + x + x = 180$$

12) $x = \underline{27}$



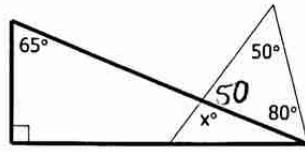
$$x + 40 + 3x - 17 + 2x - 5 = 180$$

13) $x = \underline{50}$

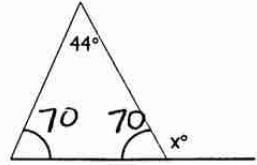


$x + x + 80 = 180$

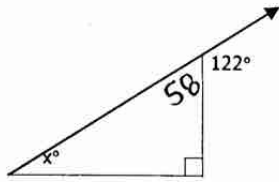
14) $x = \underline{130}$



15) $x = \underline{110}$

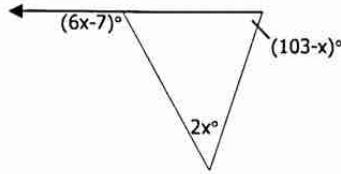


16) $x = \underline{32}$



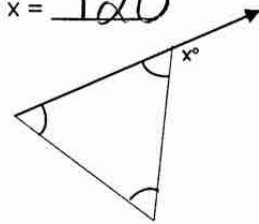
$x + 90 + 58 = 180$

17) $x = \underline{22}$

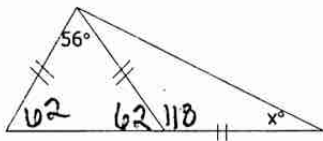


$2x + 103 - x = 6x - 7$
 $x + 103 = 6x - 7$

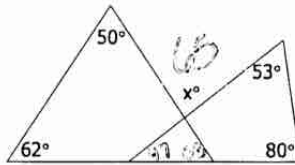
18) $x = \underline{120}$



19) $x = \underline{31}$



20) $x = \underline{65}$



II. Find the measure of each angle.

21) $\angle 1$

112

22) $\angle 2$

68

23) $\angle 3$

90

24) $\angle 4$

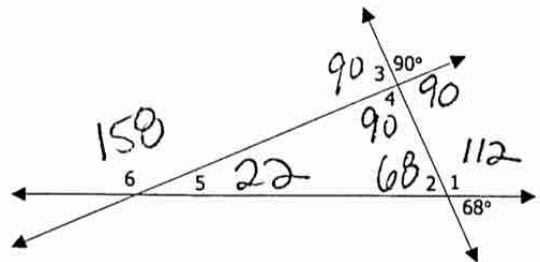
90

25) $\angle 5$

22

26) $\angle 6$

158



Isosceles and Equilateral Triangles

Find the value of x .

