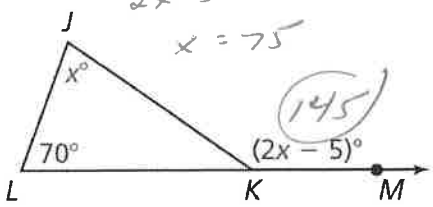
Name _____ Date _____

1) Find $m\angle JKM$.

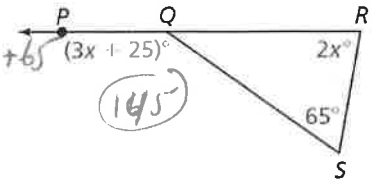


$2x-5 = x+70$

$x = 75$

145

2) Find $m\angle PQS$.

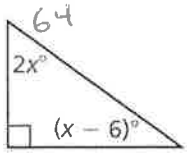


$3x+25 = 2x+65$

$x = 40$

145

3) Find the measure of each acute angle.



64

26

$2x + x - 6 = 90$

$3x = 96$

$x = 32$

4) The measure of one acute angle of a right triangle is 1.5 times the measure of the other acute angle. Find the measure of each acute angle.

$x + 1.5x = 90$

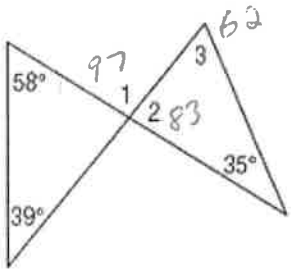
$2.5x = 90$

$x = 36$

$\angle 1 = 36$

$\angle 2 = 54$

5) Find the missing angles marked.

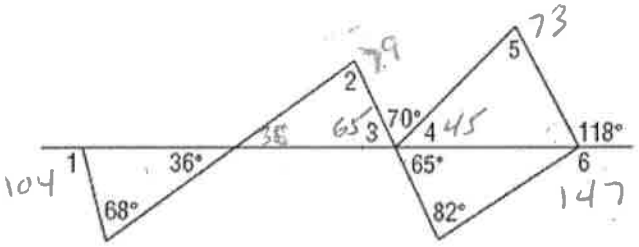


62

97

83

6)) Find the missing angles marked.



104

79

35

65

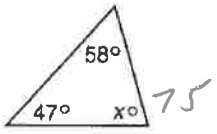
45

73

147

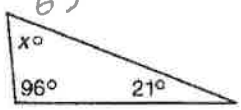
Find the value of x.

1.



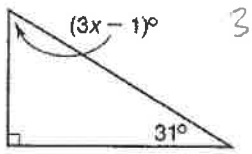
75

2.



63

3.

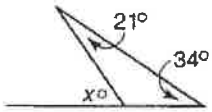


$3x-1+31 = 90$

$3x = 60$

$x = 20$

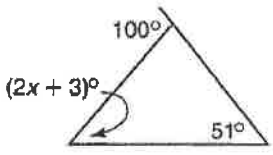
4.



$x = 21 + 34$

55

5.

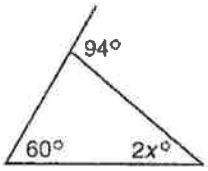


$100 = 2x+3+51$

$46 = 2x$

$23 = x$

6.



$94 = 60 + 2x$

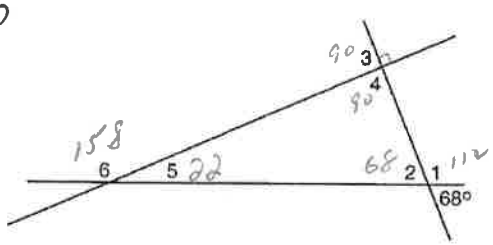
$34 = 2x$

$17 = x$

Find the measure of each angle.

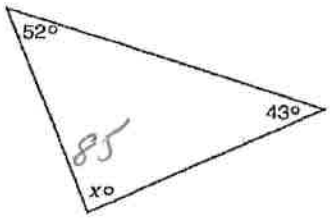
7. $\angle 1$ 112 **8.** $\angle 2$ 68 **9.** $\angle 3$ 90

10. $\angle 4$ 90 **11.** $\angle 5$ 22 **12.** $\angle 6$ 158

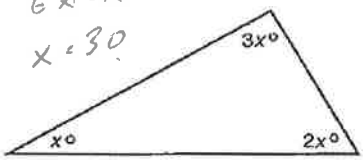


Find the value of x.

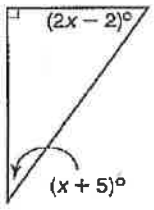
1.



2. $6x = 180$, $x = 30$



3.

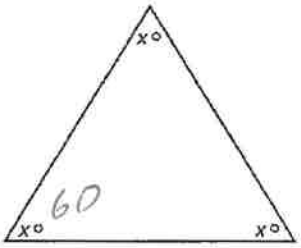


$2x - 2 + x + 5 = 90$, $3x = 87$, $x = 29$

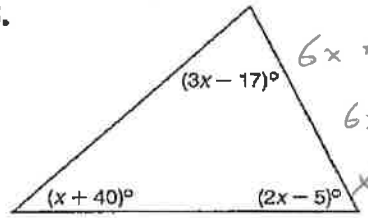
4.

147

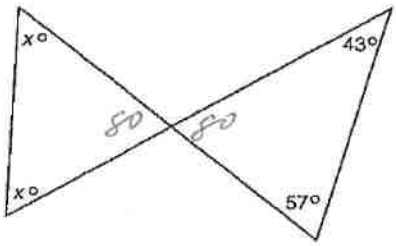
5.



6. $3x - 17 + x + 40 + 2x - 5 = 180$, $6x + 18 = 180$, $6x = 162$, $x = 27$

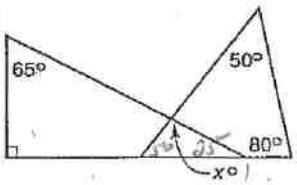


7.



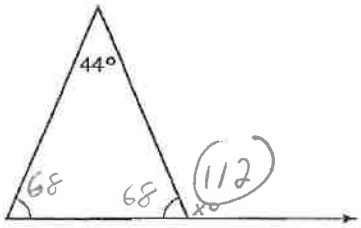
$2x + 80 = 180$, $x = 50$

8.

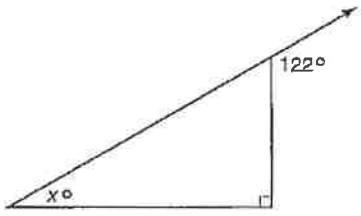


105

9.

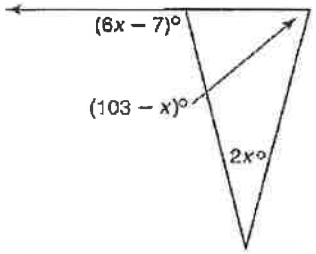


10.



$122 = x + 90$, $32 = x$

11.

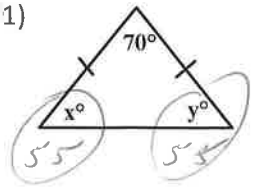


$6x - 7 = 103 - x + 2x$, $6x - 7 = 103 + x$, $5x = 110$, $x = 22$

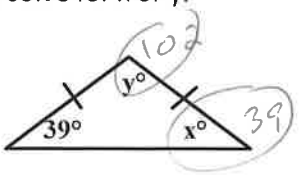
Name _____ Date _____

Use the given information in the drawing to solve for x or y.

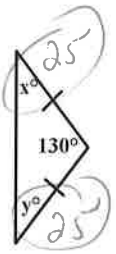
1)



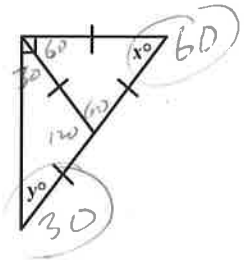
2)



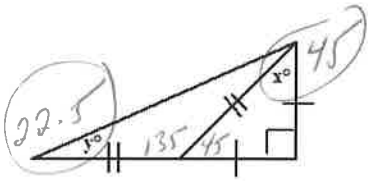
3)



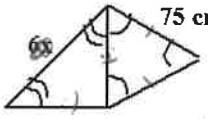
4)



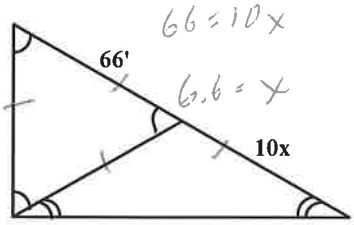
5)



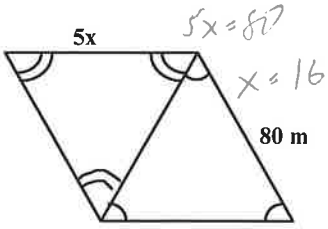
6)



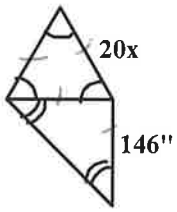
7)



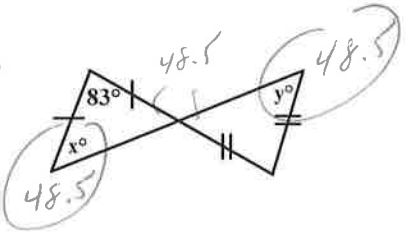
8)



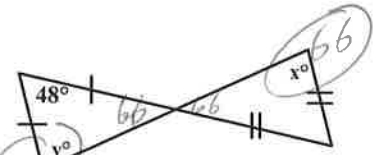
9)



10)

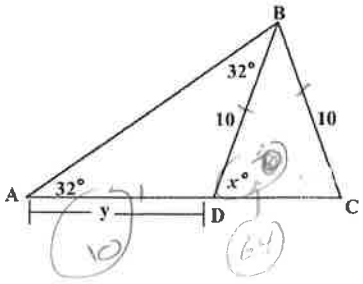


11)



12)

13) Find the value of x and y.



14) Given an equilateral triangle.