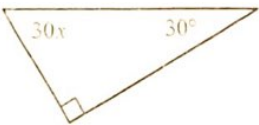


2.1 - MORE PRACTICE

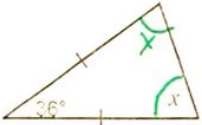
● ve for x.

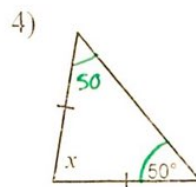
1)  $30x + 30 + 90 = 180$
 $30x + 120 = 180$
 $x = 2$



$$30 + 3 + 19x + 90 = 180$$

$$x = 3$$

3)  $36 + x + x = 180$

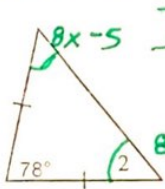


$$x + 50 + 50 = 180$$

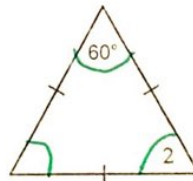
$$x + 100 = 180$$

$$x = 80$$

5) $m\angle 2 = 8x - 5$

 $8x - 5 + 78 + 8x - 5 = 180$
 $68 + 16x = 180$
 $16x = 112$
 $x = 7$

6) $m\angle 2 = 4x + 8$



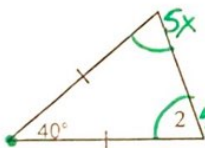
$$60 = 4x + 8$$

$$-8 \quad -8$$

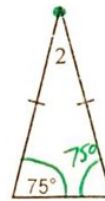
$$52 = 4x$$

$$13 = x$$

7) $m\angle 2 = 5x$

 $40 + 5x + 5x = 180$
 $40 + 10x = 180$
 $10x = 140$
 $x = 14$

8) $m\angle 2 = 8 + 2x$

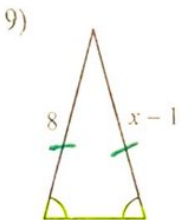


$$75 + 75 + 8 + 2x = 180$$

$$158 + 2x = 180$$

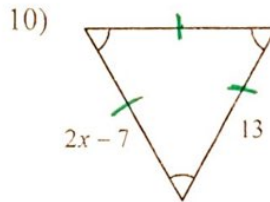
$$2x = 22$$

$$x = 11$$



$$8 = x - 1$$

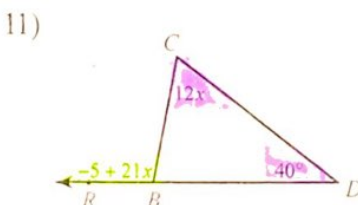
$$9 = x$$



$$2x - 7 = 13$$

$$2x = 20$$

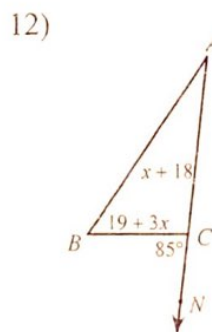
$$x = 10$$



$$-5 + 21x = 12x + 40$$

$$9x = 45$$

$$x = 5$$



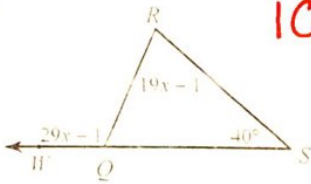
$$85 = 19 + 3x + x + 18$$

$$85 = 4x + 37$$

$$48 = 4x$$

$$12 = x$$

13)



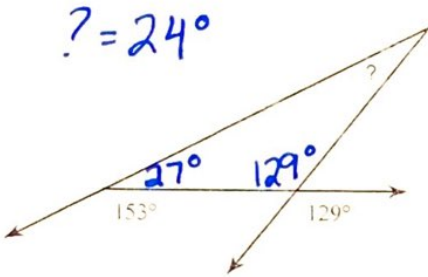
$$29x - 1 = 19x - 1 + 40$$

$$10x = 40$$

$$x = 4$$

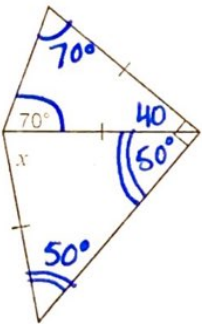
Find the measure of each angle indicated.

15)



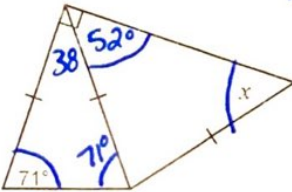
Find the value of x .

17)



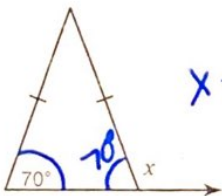
$$x = 80^\circ$$

19)



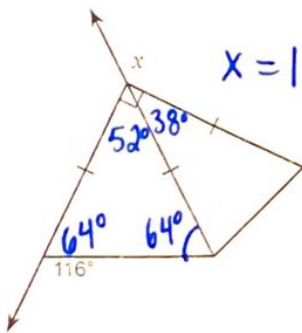
$$x = 52^\circ$$

21)



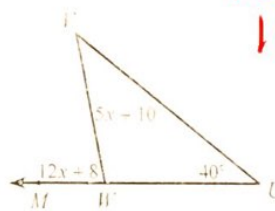
$$x = 110^\circ$$

23)



$$x = 142^\circ$$

14)



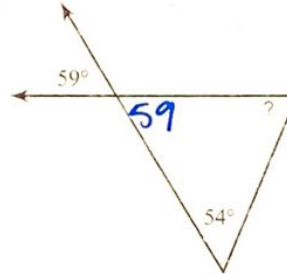
$$12x + 8 = 5x + 10 + 40$$

$$12x + 8 = 5x + 50$$

$$7x = 42$$

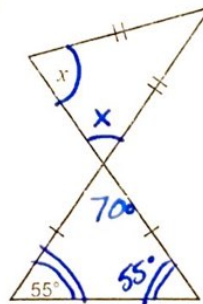
$$x = 6$$

16)



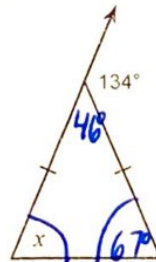
$$? = 67^\circ$$

18)



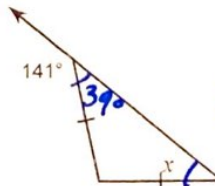
$$x = 70^\circ$$

20)



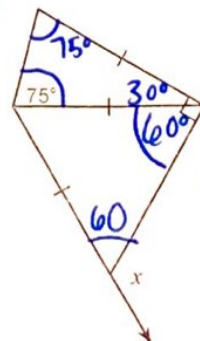
$$x = 67^\circ$$

22)



$$x = 39^\circ$$

24)



$$x = 120^\circ$$