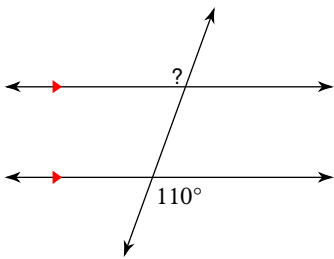


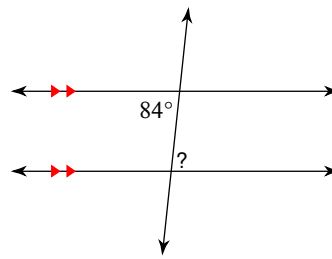
Parallel Lines and Transversals

Find the measure of each angle indicated.

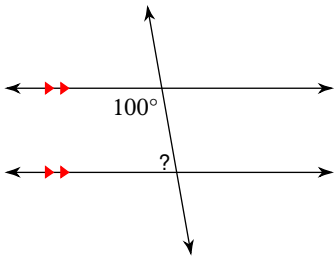
11)



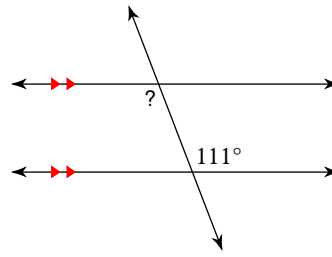
12)



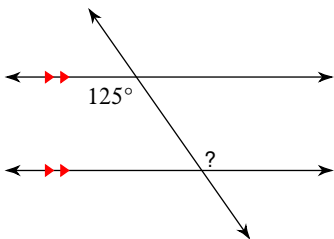
13)



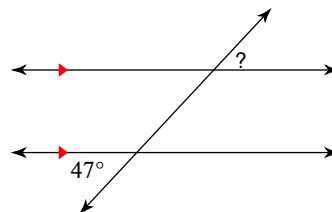
14)



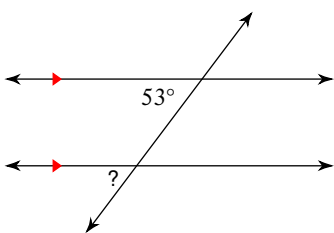
15)



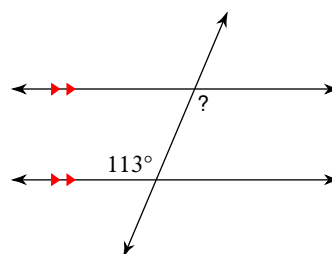
16)



17)

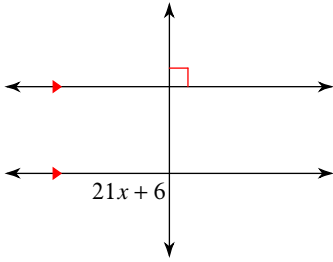


18)

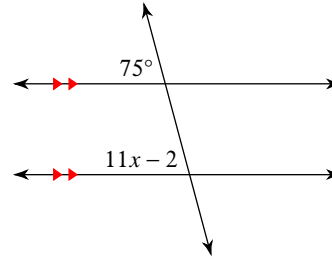


Solve for  $x$ .

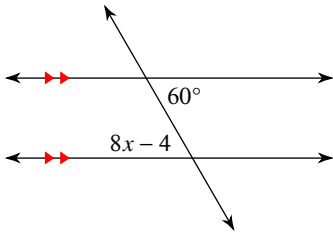
19)



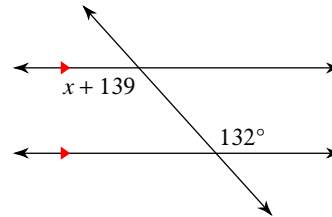
20)



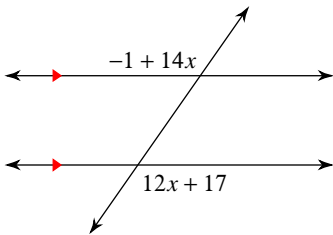
21)



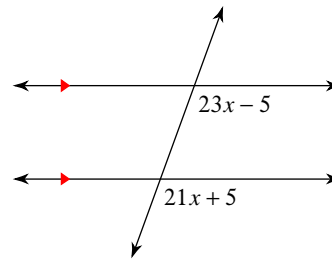
22)



23)

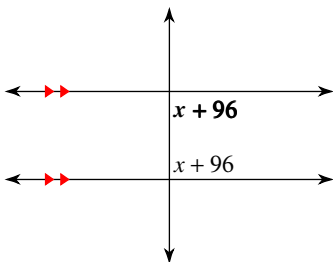


24)

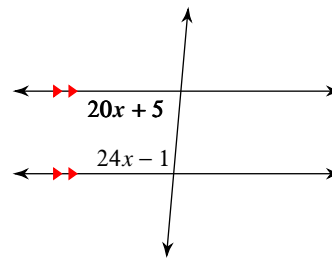


Find the measure of the angle indicated in bold.

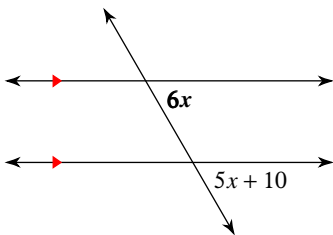
25)



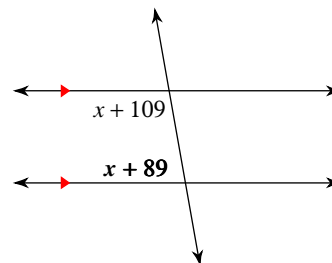
26)



27)

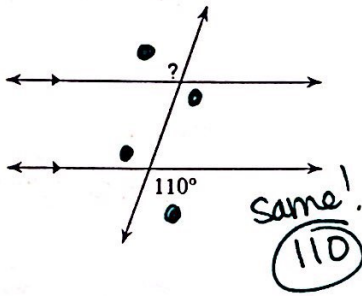


28)

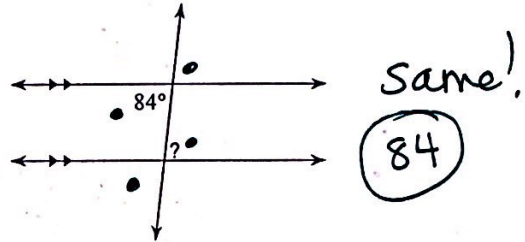


Find the measure of each angle indicated.

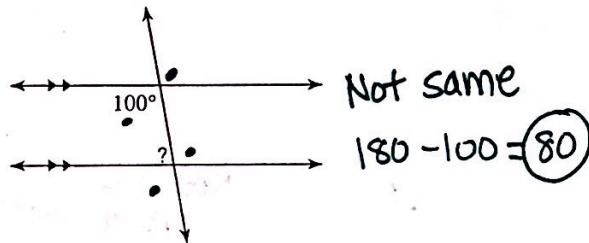
11)



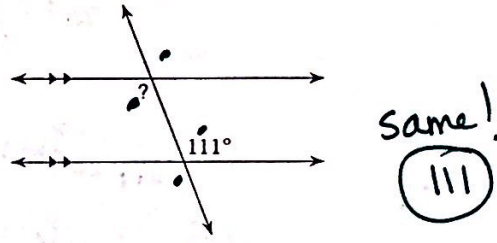
12)



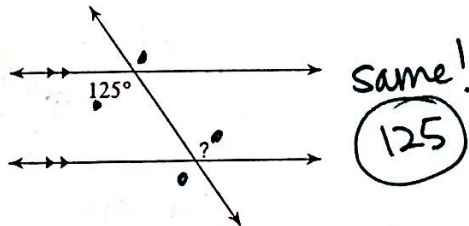
13)



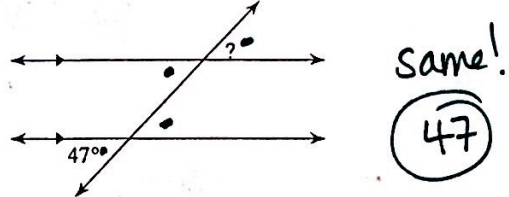
14)



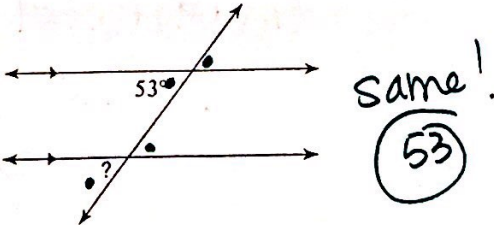
15)



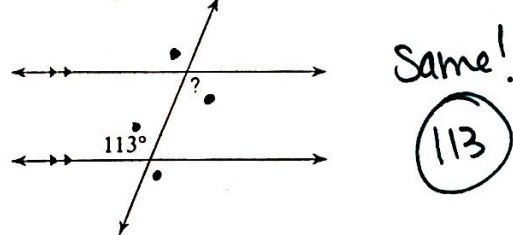
16)



17)



18)



Solve for x.

19)

Same!

$$21x + 6 = 90$$

$$21x = 84$$

$$\boxed{x = 4}$$

20)

Same!

$$11x - 2 = 75$$

$$11x = 77$$

$$\boxed{x = 7}$$

21)

Same!

$$8x - 4 = 60$$

$$8x = 64$$

$$\boxed{x = 8}$$

22)

Same!

$$x + 139 = 132$$

$$\boxed{x = -7}$$

23)

Same!

$$-1 + 14x = 12x + 17$$

$$\begin{array}{r} -1 + 14x = 12x + 17 \\ -12x \quad -12x \\ \hline -1 + 2x = 17 \\ +1 \quad +1 \\ \hline 2x = 18 \\ \boxed{x = 9} \end{array}$$

24)

Same!

$$23x - 5 = 21x + 5$$

$$\begin{array}{r} 23x - 5 = 21x + 5 \\ -21x \quad -21x \\ \hline 2x - 5 = 5 \\ +5 \quad +5 \\ \hline 2x = 10 \\ \boxed{x = 5} \end{array}$$

Find the measure of the angle indicated in bold.

25)

Not same  $\rightarrow$  supplementary

$$(x + 96) + (x + 96) = 180$$

$$2x + 192 = 180$$

$$2x = -12$$

$$\boxed{x = -6}$$

26)

Not same  $\rightarrow$  supplementary

$$(20x + 5) + (24x - 1) = 180$$

$$44x + 4 = 180$$

$$44x = 176$$

$$\boxed{x = 4}$$

27)

Same!

$$6x = 5x + 10$$

$$\begin{array}{r} 6x = 5x + 10 \\ -5x \quad -5x \\ \hline x = 10 \\ \boxed{x = 10} \end{array}$$

28)

Not same  $\rightarrow$  supplementary

$$(x + 109) + (x + 89) = 180$$

$$2x + 198 = 180$$

$$2x = -18$$

$$\boxed{x = -9}$$