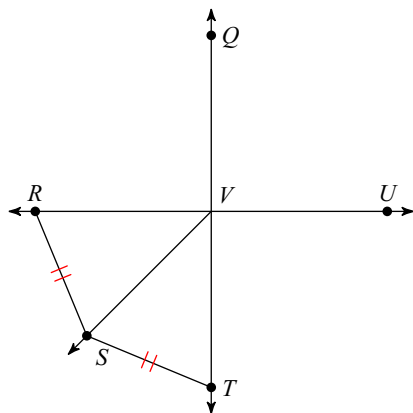


Homework 9

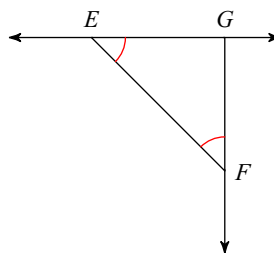
Write if the statement given is indicated by the marks on the diagram.

1)



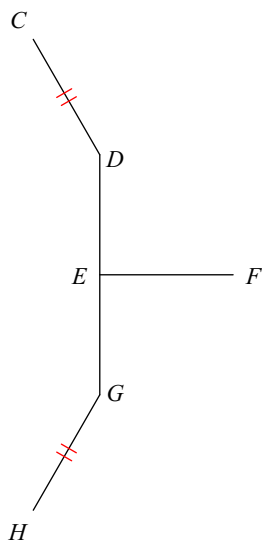
$$\overline{TS} \cong \overline{SR}$$

2)



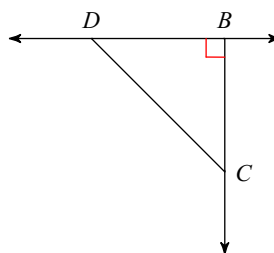
$$\angle GEF \cong \angle GFE$$

3)



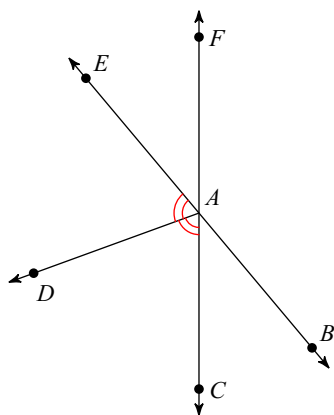
$$\overrightarrow{FG} \parallel \overrightarrow{CE}$$

4)



$$\overline{CE} \perp \overline{BC}$$

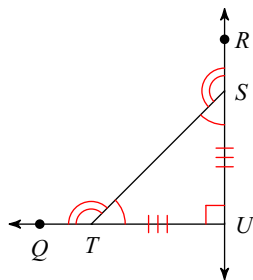
5)



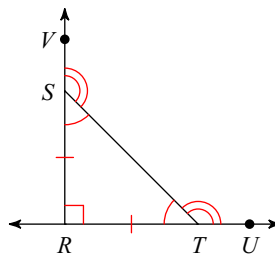
$$\angle DAE \cong \angle CAD$$

List all information given by the marks on the diagram.

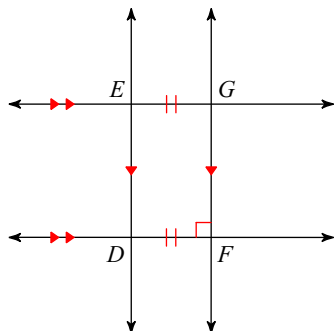
6)



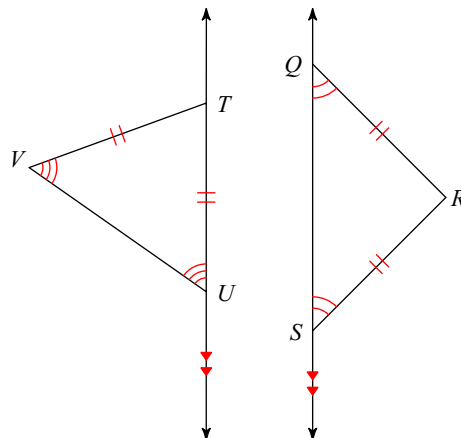
7)



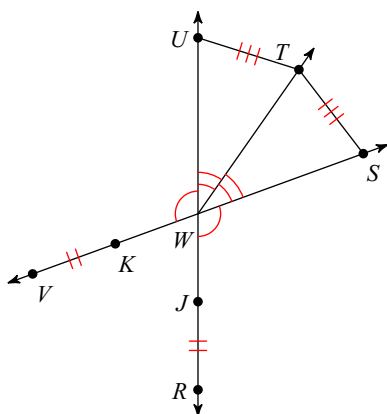
8)



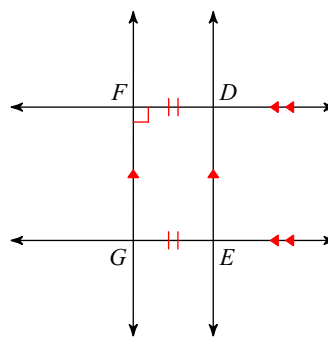
9)



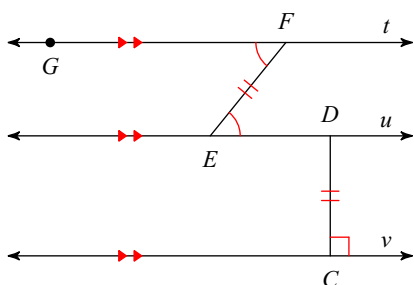
10)



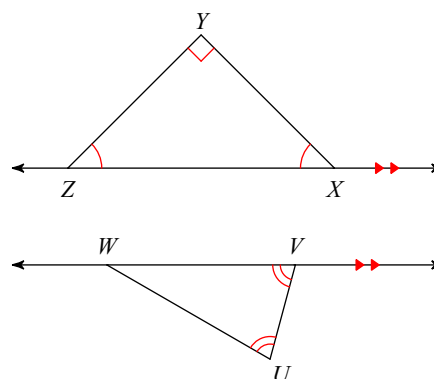
11)



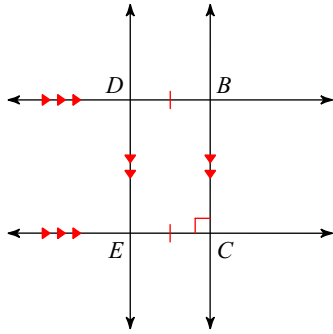
12)



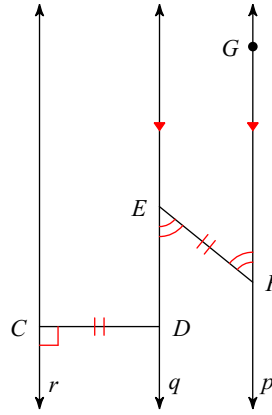
13)



14)

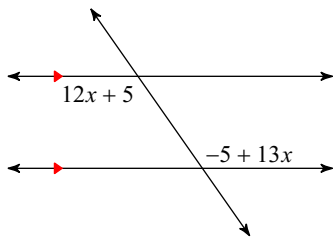


15)

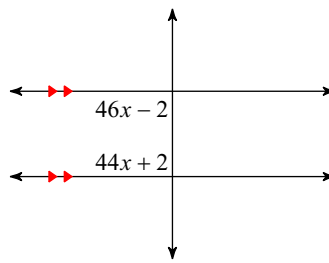


Solve for x .

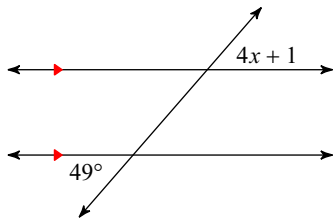
16)



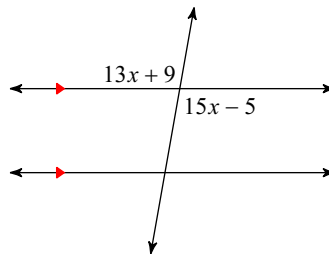
17)



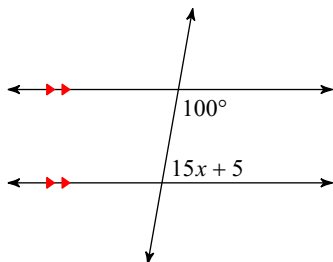
18)



19)

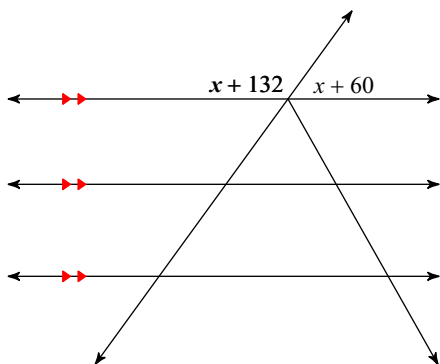


20)

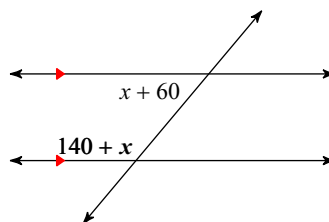


Find the measure of the angle indicated in bold.

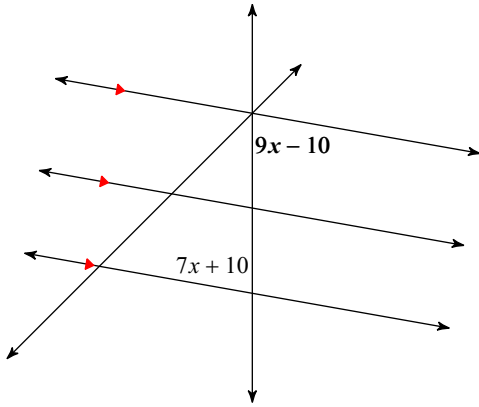
21)



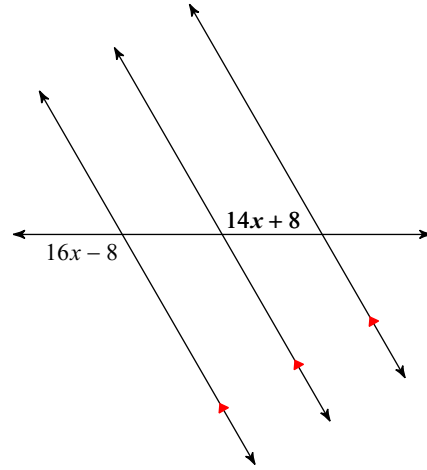
22)



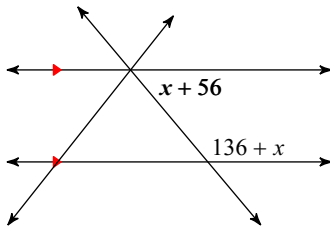
23)



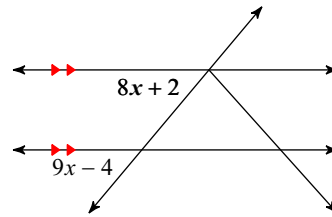
24)



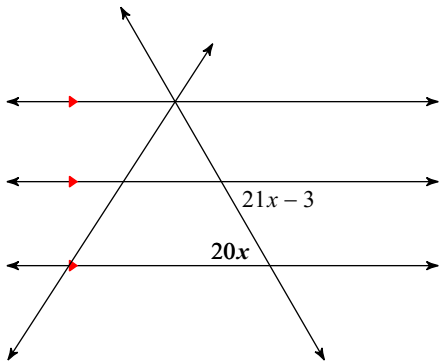
25)



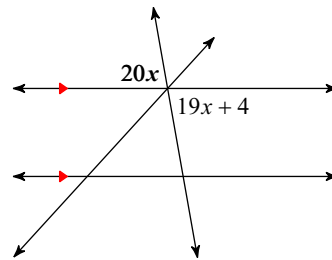
26)



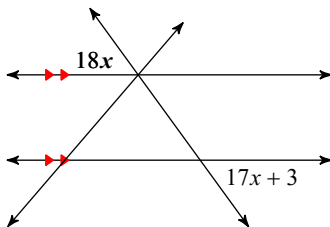
27)



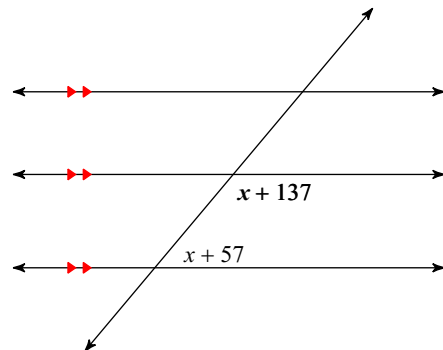
28)



29)



30)



Answers to Homework 9

1) Given by the diagram

7) $\overrightarrow{RS} \perp \overrightarrow{RT}$

$$\overline{RS} \cong \overline{RT}$$

$$\angle RTS \cong \angle RST$$

$$\angle STU \cong \angle TSV$$

13) $\overrightarrow{ZY} \perp \overrightarrow{YX}$

$$\overrightarrow{WV} \parallel \overrightarrow{ZX}$$

$$\angle YZX \cong \angle YXZ$$

$$\angle WUV \cong \angle WVU$$

21) 126°

29) 54°

3) Not given by the diagram

9) $\overrightarrow{QS} \parallel \overrightarrow{TU}$

$$\overline{RS} \cong \overline{QR} \cong \overline{TU} \cong \overline{TV}$$

$$\angle RQS \cong \angle RSQ$$

$$\angle TVU \cong \angle TUV$$

15) $p \parallel q$

$$r \perp \overline{CD}$$

$$\overline{CD} \cong \overline{EF}$$

$$\angle DEF \cong \angle GFE$$

23) 80°

5) Given by the diagram

11) $\overrightarrow{GF} \parallel \overrightarrow{ED}$

$$\overrightarrow{DF} \parallel \overrightarrow{EG}$$

$$\overrightarrow{FD} \perp \overrightarrow{GF}$$

$$\overline{EG} \cong \overline{DF}$$

17) 2

19) 7

25) 50°

27) 60°