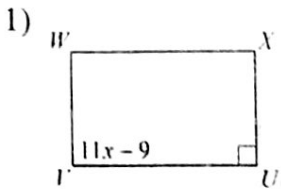
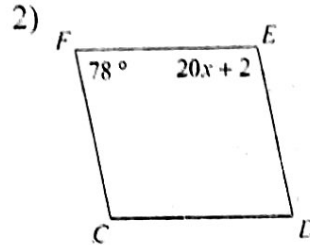


2.1 - Practice

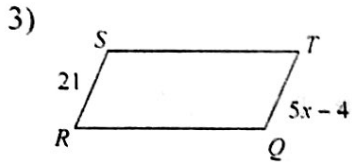
Solve for x. Each figure is a parallelogram.



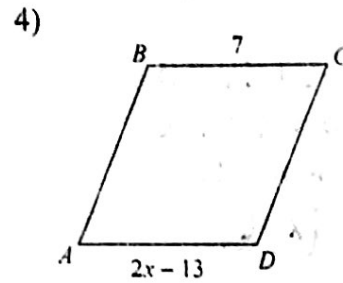
$$\begin{aligned} 11x - 9 &= 90 \\ 11x &= 99 \\ \boxed{x &= 9} \end{aligned}$$



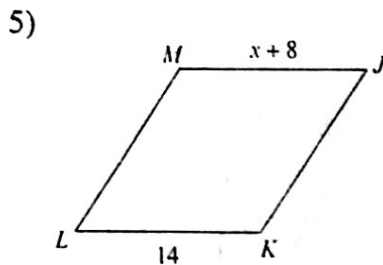
$$\begin{aligned} 78 + 20x + 2 &= 180 \\ 20x + 80 &= 180 \\ 20x &= 100 \\ \boxed{x &= 5} \end{aligned}$$



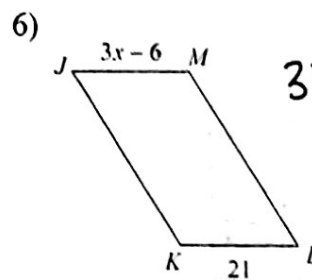
$$\begin{aligned} 5x - 4 &= 21 \\ 5x &= 26 \\ \boxed{x &= 5} \end{aligned}$$



$$\begin{aligned} 2x - 13 &= 7 \\ 2x &= 20 \\ \boxed{x &= 10} \end{aligned}$$



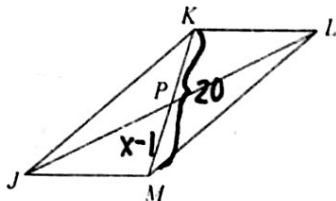
$$\begin{aligned} x + 8 &= 14 \\ \boxed{x &= 6} \end{aligned}$$



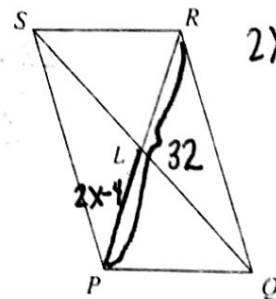
$$\begin{aligned} 3x - 6 &= 21 \\ 3x &= 27 \\ \boxed{x &= 9} \end{aligned}$$

7) $KM = 20$
 $PM = x - 1$

$$\begin{aligned} x - 1 &= 10 \\ \boxed{x &= 11} \end{aligned}$$



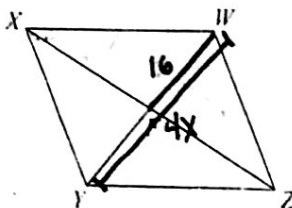
8) $RP = 32$
 $LP = 2x - 4$



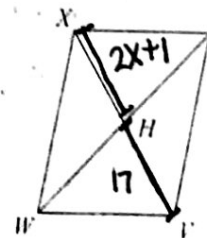
$$\begin{aligned} 2x - 4 &= 16 \\ 2x &= 20 \\ \boxed{x &= 10} \end{aligned}$$

9) $FW = 16$
 $YW = 4x$

$$\begin{aligned} 4x &= 32 \\ \boxed{x &= 8} \end{aligned}$$



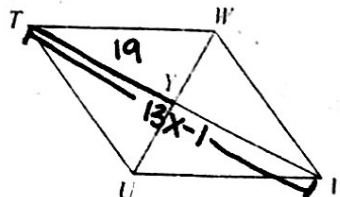
10) $VH = 17$
 $HX = 2x + 1$



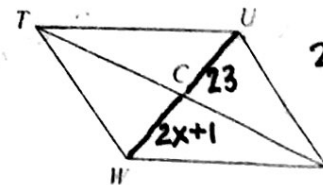
$$\begin{aligned} 2x + 1 &= 17 \\ 2x &= 16 \\ \boxed{x &= 8} \end{aligned}$$

11) $YT = 19$
 $VT = 13x - 1$

$$\begin{aligned} 13x - 1 &= 38 \\ 13x &= 39 \\ \boxed{x &= 3} \end{aligned}$$



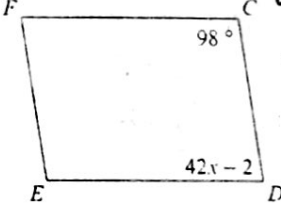
12) $UC = 23$
 $CW = 2x + 1$

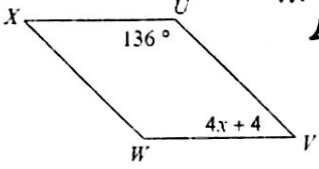


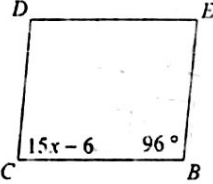
$$\begin{aligned} 2x + 1 &= 23 \\ 2x &= 22 \\ \boxed{x &= 11} \end{aligned}$$

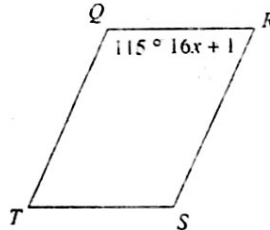
2.1 - Practice

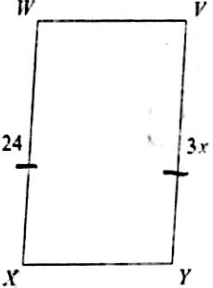
Solve for x . Each figure is a parallelogram.

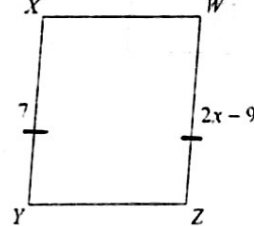
1)  $98 + 42x - 2 = 180$
 $42x + 96 = 180$
 $42x = 84$
 $x = 2$


2)  $4x + 4 + 136 = 180$
 $4x + 140 = 180$
 $4x = 40$
 $x = 10$

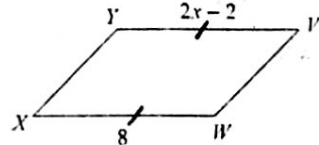
3)  $15x - 6 + 96 = 180$
 $15x + 90 = 180$
 $15x = 90$
 $x = 6$

4)  $115 + 16x + 1 = 180$
 $16x + 116 = 180$
 $16x = 64$
 $x = 4$

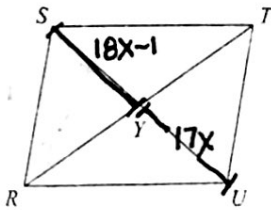
5)  $3x - 3 = 24$
 $3x = 27$
 $x = 9$

6)  $2x - 9 = 7$
 $2x = 16$
 $x = 8$

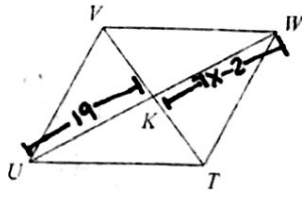
7)  $2x + 6 = x + 15$
 $x = 9$

8)  $2x - 2 = 8$
 $2x = 10$
 $x = 5$

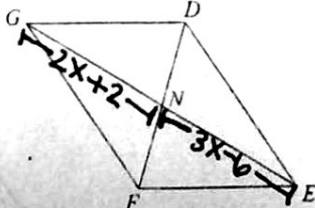
9) $SY = 18x - 1$
 $YU = 17x$
 $18x - 1 = 17x$
 $-1 = -1x$
 $x = 1$



10) $UK = 19$
 $KW = 7x - 2$
 $7x - 2 = 19$
 $7x = 21$
 $x = 3$



11) $EN = 3x - 6$
 $NG = 2x + 2$
 $2x + 2 = 3x - 6$
 $x = 8$



12) $WU = 26$
 $LU = x + 5$
 $x + 5 = 13$
 $x = 8$

