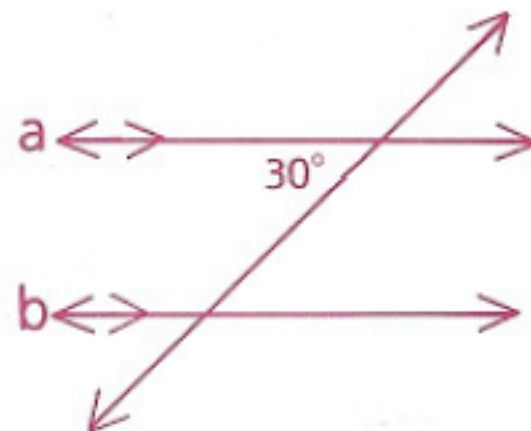


# Homework

p. 229: 3, 4, 7, 8, 22

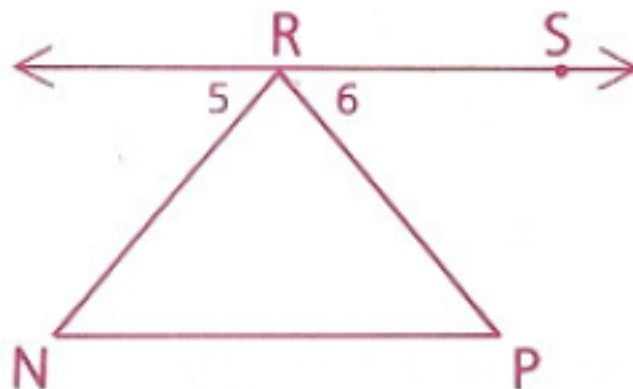
- 3** Given:  $a \parallel b$ ,  
 $30^\circ$  angle as shown

Copy the diagram and fill in the measures of the seven remaining angles.

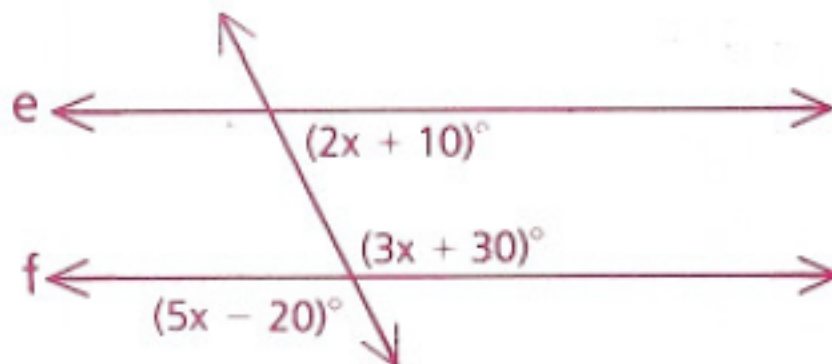


- 4** Given:  $\angle 5 \cong \angle 6$ ,  
 $\overline{RS} \parallel \overline{NP}$

Prove:  $\triangle NPR$  is isosceles.



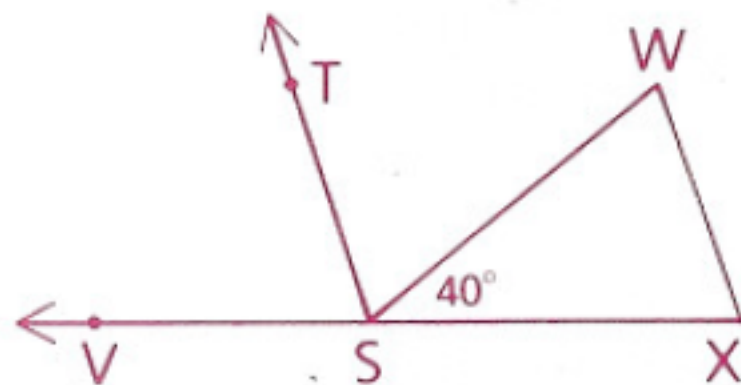
- 7** Are e and f parallel?



- 8 Given:  $\overrightarrow{ST} \parallel \overrightarrow{XW}$ ;  
 $\overrightarrow{ST}$  bisects  $\angle VSW$ .

Find:  $m\angle X$  and  
 $m\angle W$

What do you notice about  $\triangle WSX$ ?



- 22 Given:  $a \parallel b$ ,  
 $\angle 1 = (x + 3y)^\circ$ ,  
 $\angle 2 = (2x + 30)^\circ$ ,  
 $\angle 3 = (5y + 20)^\circ$

Find:  $m\angle 1$

