

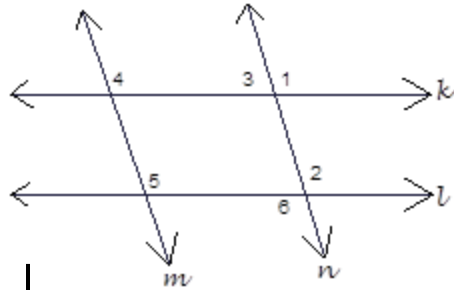
Geometry (G.CO.9)

Unit One B: Proofs with Parallels #3 (HW28)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Given:  $\angle 1 \cong \angle 5$ ;  
*line m*  $\parallel$  *line n*

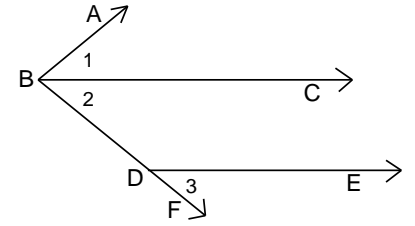


Prove: *line k*  $\parallel$  *line l*

Statements

Reasons

2. Given:  $\angle 1 \cong \angle 3$ ;  $\overrightarrow{BC}$  bisects  $\angle ABD$



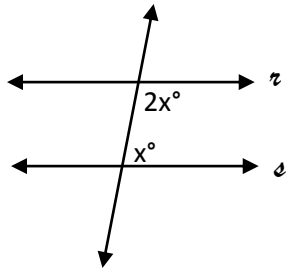
Prove:  $\overline{BC} \parallel \overline{DE}$

Statements

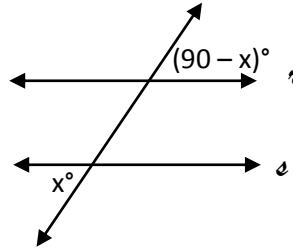
Reasons

3. Find the value of  $x$  that makes  $r \parallel s$ .

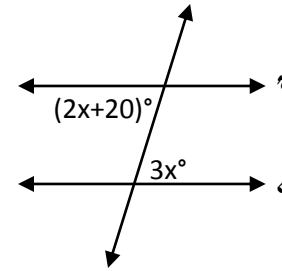
a)



b)

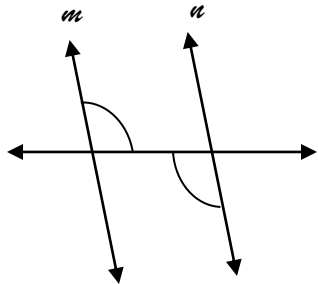


c)



4. Is it possible to prove lines  $m$  and  $n$  are parallel? If so, state the full reason you would use:

a)



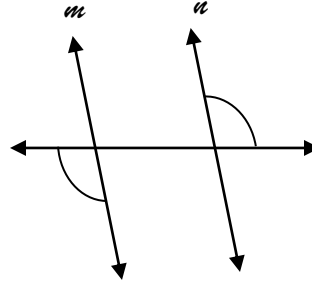
Yes

No

Why \_\_\_\_\_

\_\_\_\_\_

b)



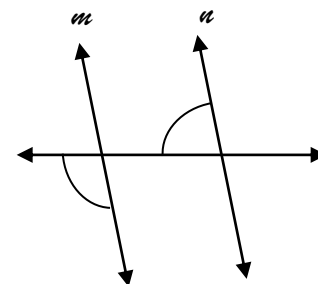
Yes

No

Why \_\_\_\_\_

\_\_\_\_\_

c)



Yes

No

Why \_\_\_\_\_

\_\_\_\_\_