

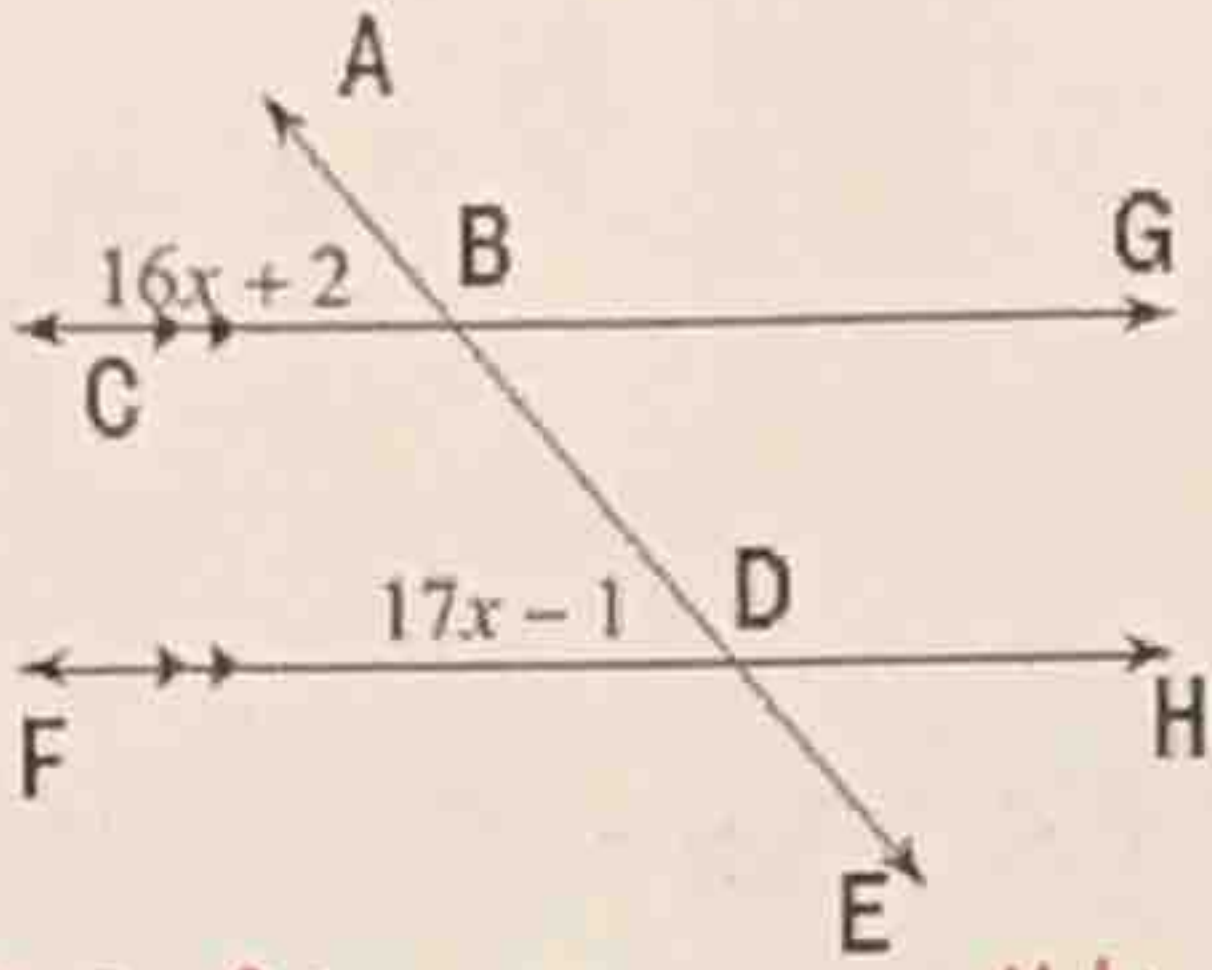
Name: _____

Key

Parallels Cut by a Transversal HW Day 2

Directions: Find the value of the variable, show your geometric set up, and justify your set up! (I took off #1-6)

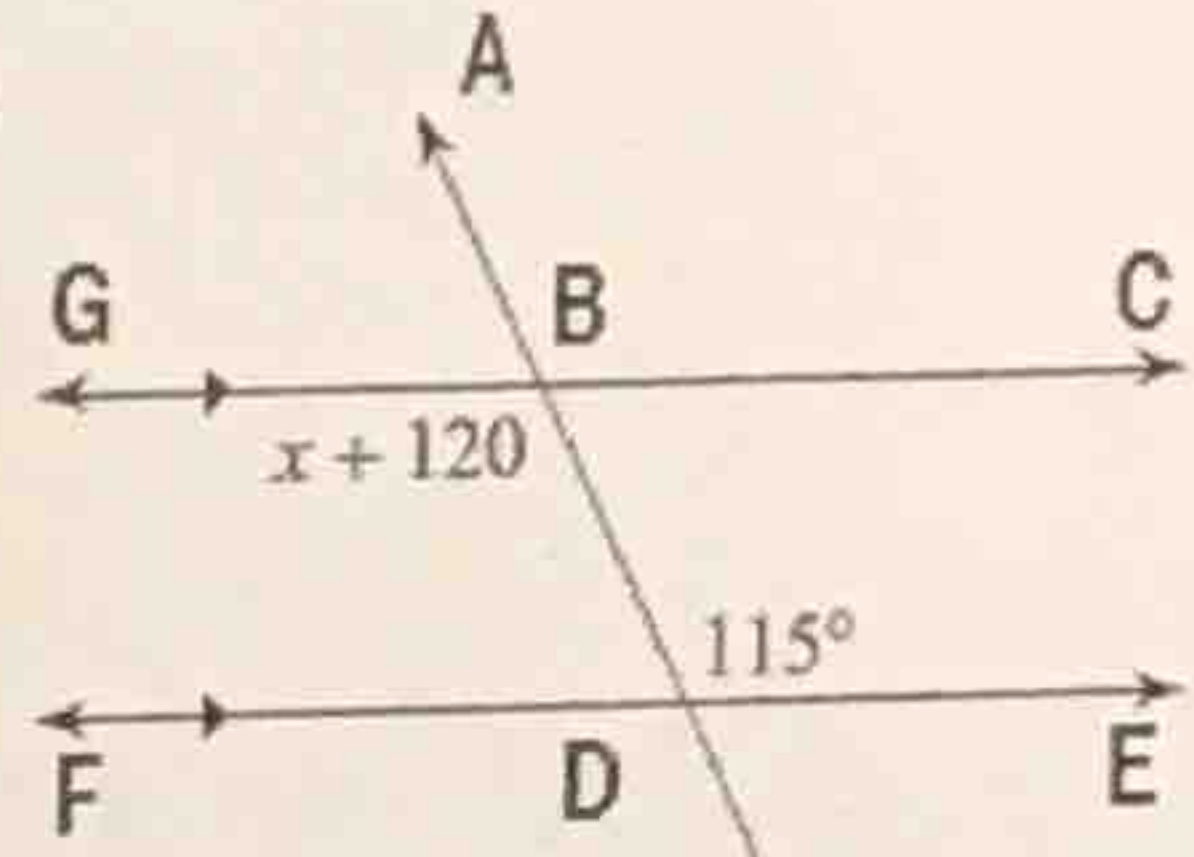
7)



$\angle ABC \cong \angle BDF$ // lines form
 \cong corr. \angle s

$x = 3$

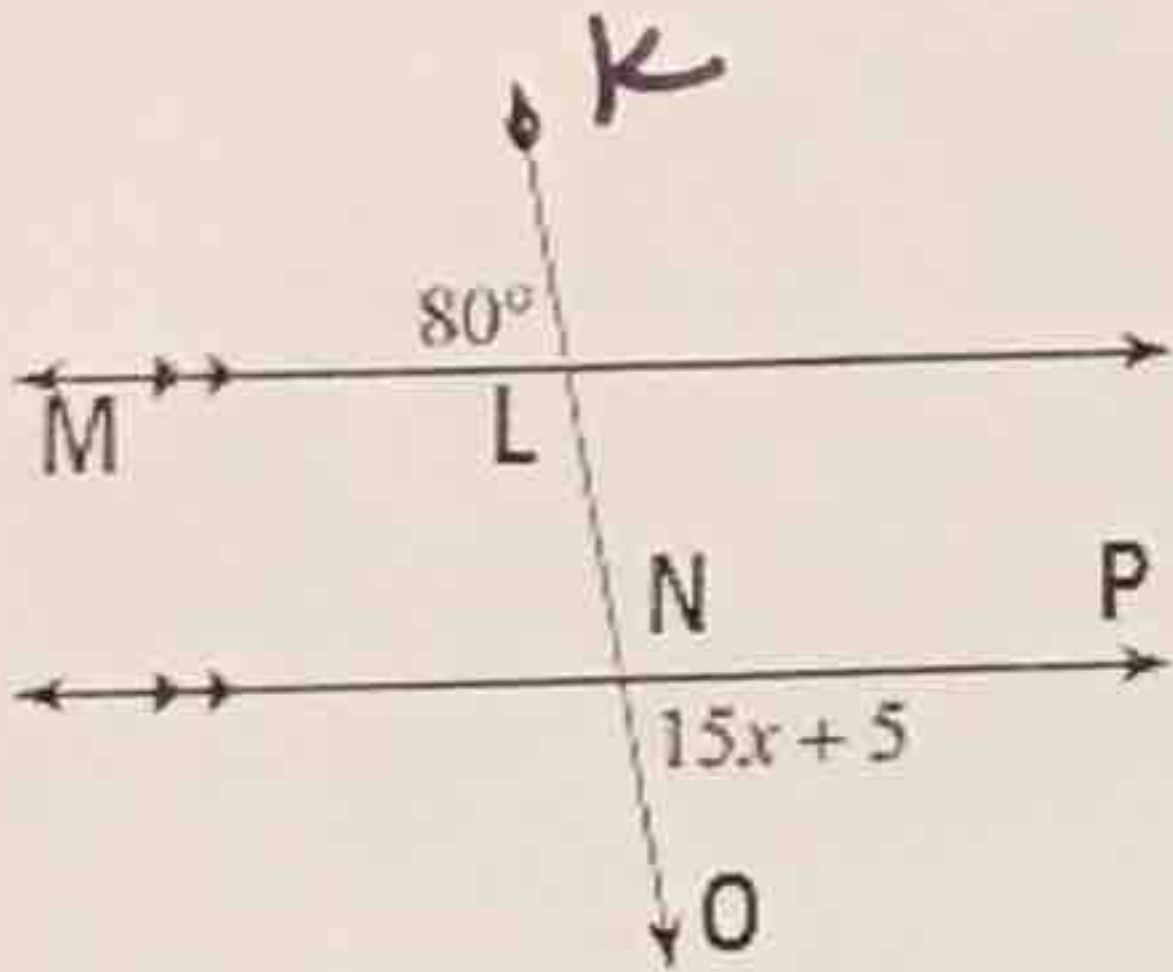
8)



$\angle GBD \cong \angle BDE$ // lines
 form \cong
 alt. int \angle s

$x = -5$

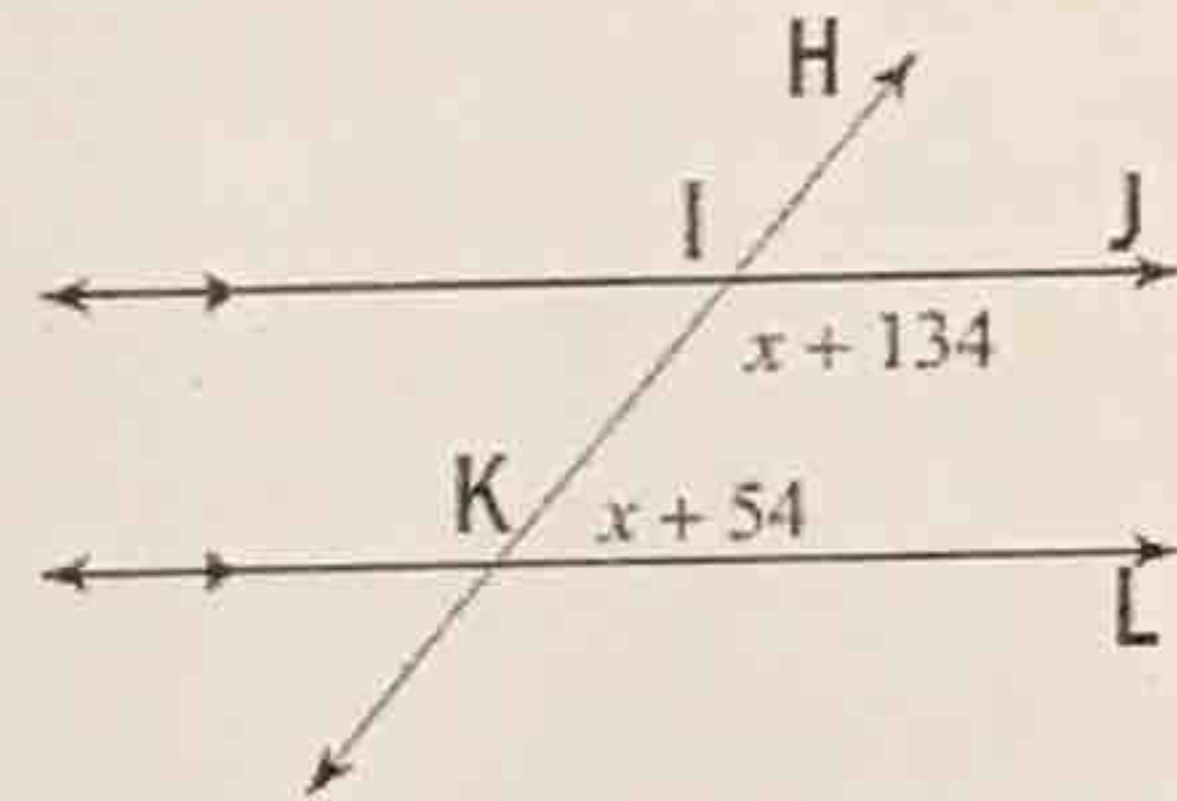
9)



$\angle MLK \cong \angle PNO$ // lines form
 \cong alt. ext \angle s

$5 = x$

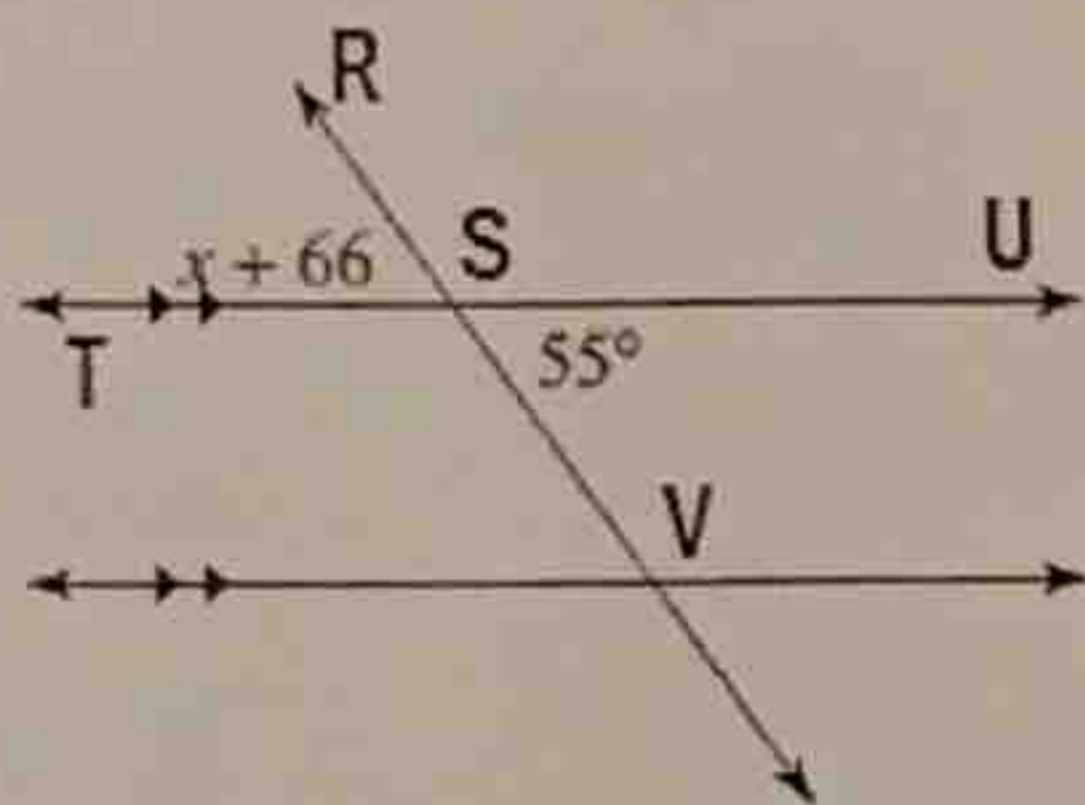
10)



$\angle JIK + \angle LKI = 180^\circ$ // lines
 form
 Suppl.
 con. int \angle s

$x = -4$

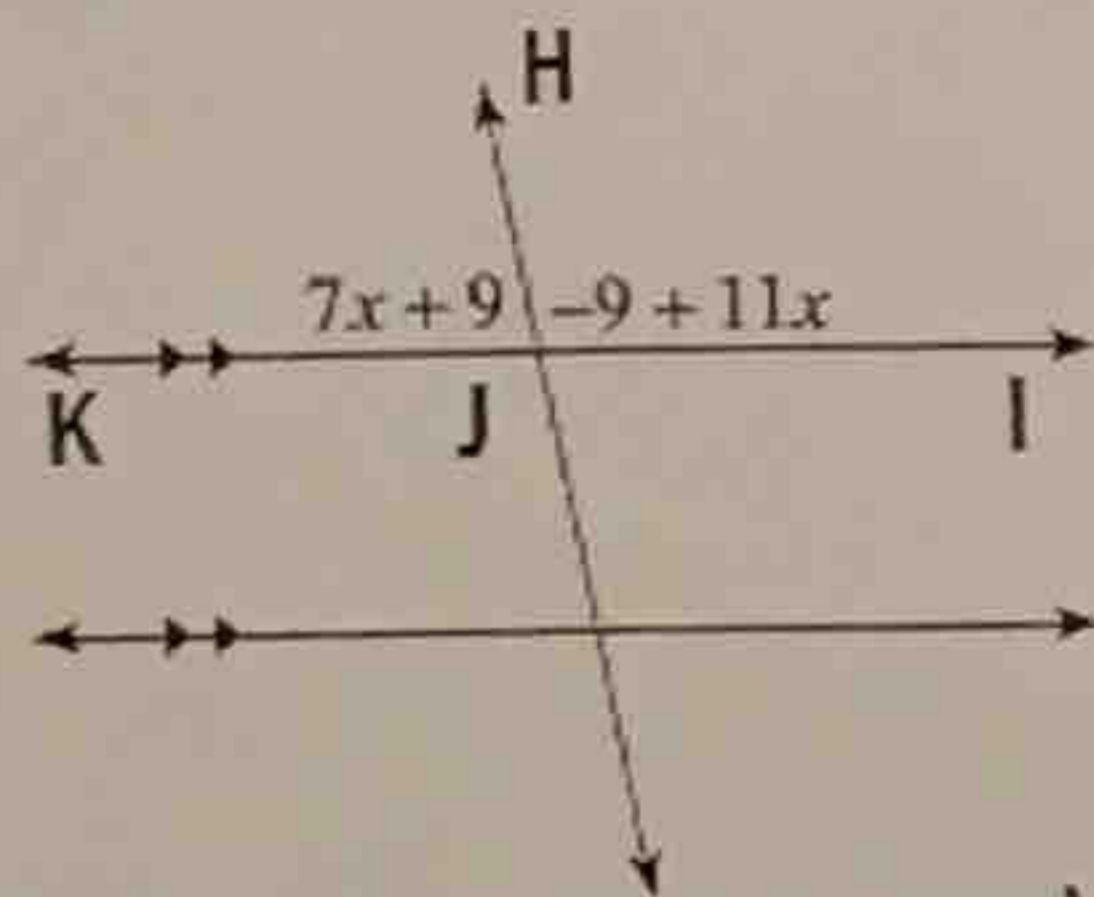
11)



$\angle RST \cong \angle USV$ vertical \angle s
are \cong

$$x = -11$$

12)

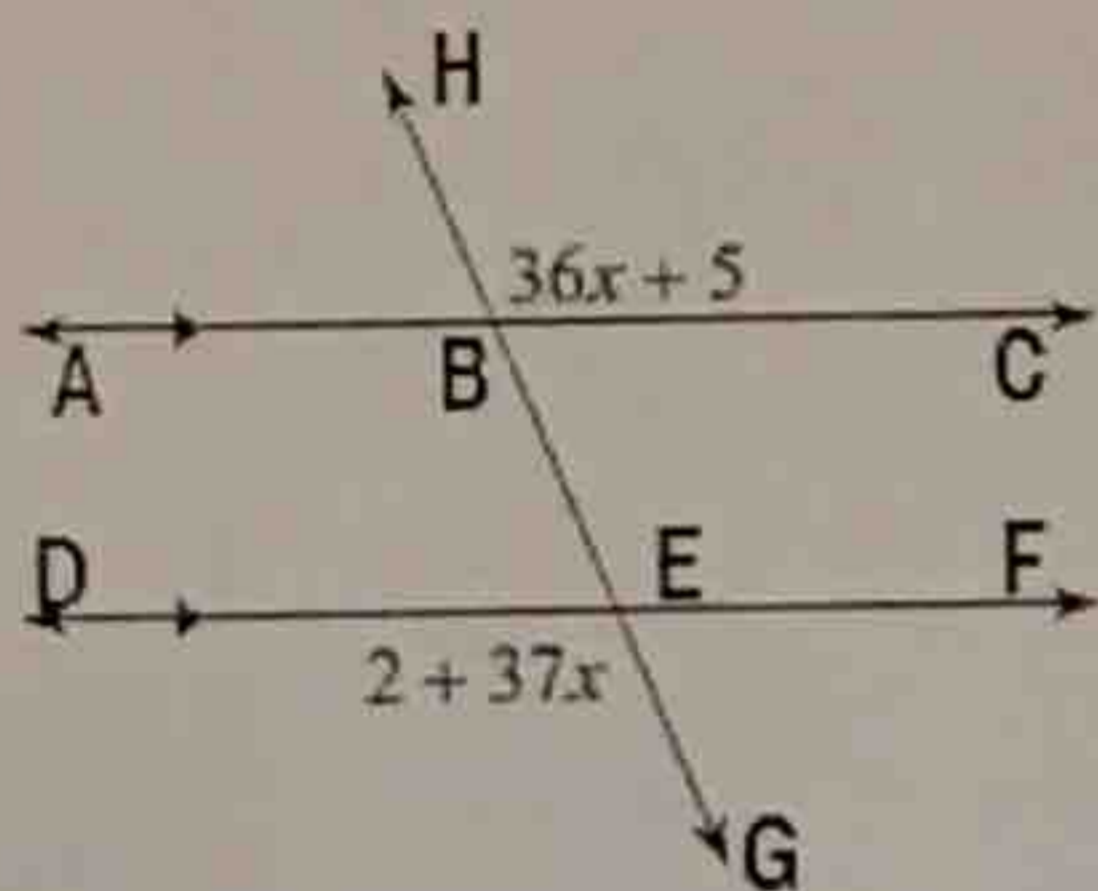


$\angle KJH + \angle IJH = 180$ linear
pairs
are suppl.

$$x = 10$$

Solve for x .

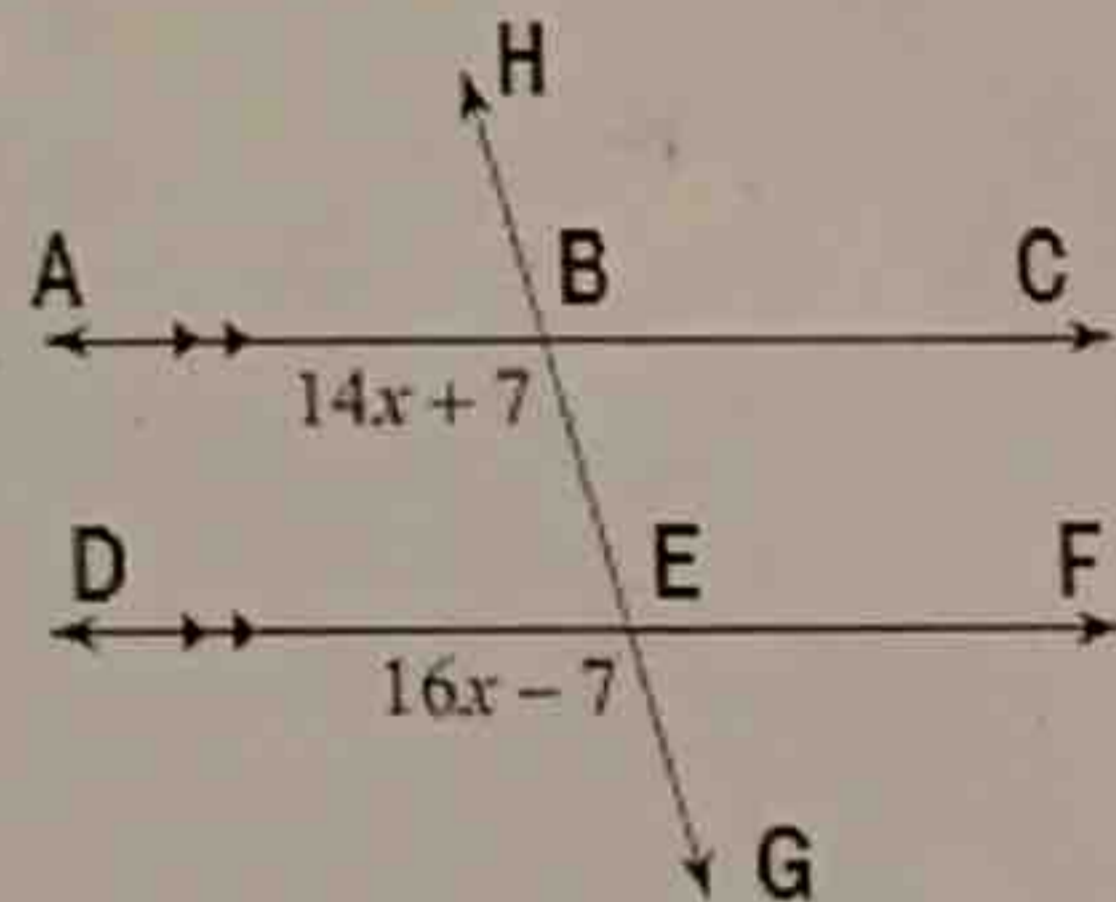
13)



$\angle HBC \cong \angle DEG$ // lines form
 \cong alt. ext. \angle s

$$x = 3$$

14)



$\angle ABE \cong \angle DEG$
// lines form
 \cong corr. \angle s

$$x = 7$$