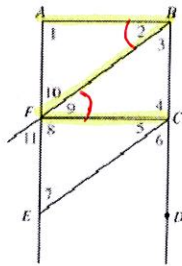


1. $\angle 2 \cong \angle 9$

$\overline{AB} \parallel \overline{FC}$

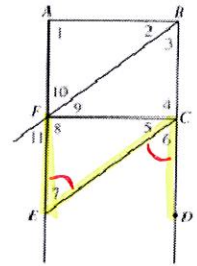
by Alt Int \angle 's Converse



2. $\angle 6 \cong \angle 7$

$\overline{AE} \parallel \overline{BD}$

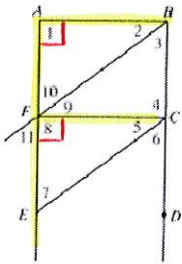
by Alt Int \angle 's Converse



3. $m\angle 1 = m\angle 8 = 90$

$\overline{AB} \parallel \overline{FC}$

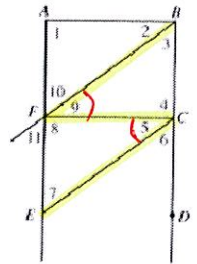
by Corr \angle 's Converse



4. $\angle 5 \cong \angle 9$

$\overline{FB} \parallel \overline{EC}$

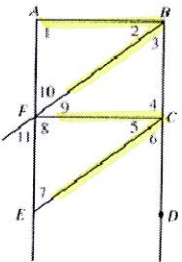
by Alt Int \angle 's Converse



5. $m\angle 2 = m\angle 5$

None

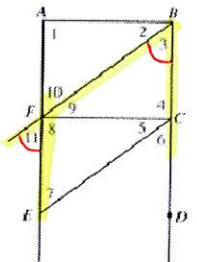
~~(no info given about angles 2 and 5)~~
~~are not both adjacent~~
~~the other angles are not~~
~~adjacent to each other~~



6. $\angle 3 \cong \angle 11$

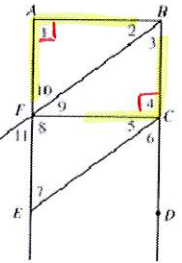
$\overline{AE} \parallel \overline{BC}$

by Corr \angle 's Converse



7. $m\angle 1 = m\angle 4 = 90$

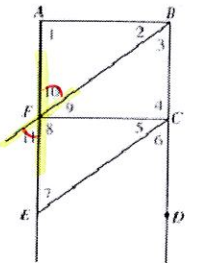
None



8. $m\angle 10 = m\angle 11$

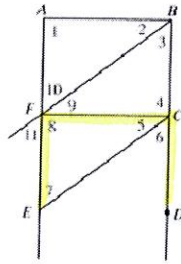
None

(Vertical \angle 's do not indicate parallel lines)



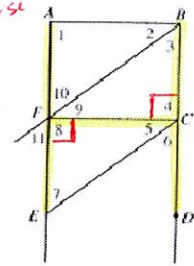
9. $m\angle 8 + m\angle 5 + m\angle 6 = 180$

$\overline{AE} \parallel \overline{BD}$
by Consec Int
 \angle 's Converse



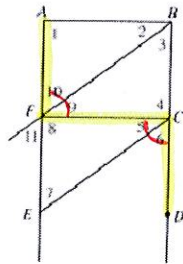
10. $\overline{FC} \perp \overline{AE}$ and $\overline{FC} \perp \overline{BD}$

$\overline{AE} \parallel \overline{BD}$
by Consec Int \angle 's Converse
or
Alt Int \angle 's Converse



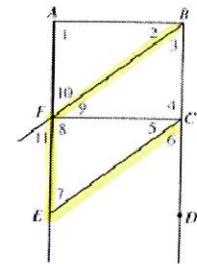
11. $m\angle 5 + m\angle 6 = m\angle 9 + m\angle 10$

$\overline{AE} \parallel \overline{BD}$
by Alt Int \angle 's
Converse



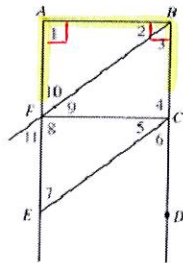
12. $\angle 7$ and $\angle EFB$ are supplementary

$\overline{FB} \parallel \overline{EC}$
by Consec Int
 \angle 's Converse



13. $\angle 2$ and $\angle 3$ are complementary
and $m\angle 1 = 90$

$\overline{AE} \parallel \overline{BD}$
by Consec Int
 \angle 's Converse



14. $m\angle 2 + m\angle 3 = m\angle 4$

none

