

Practice Worksheet for Lesson 3-2 and 3-3

Name:

Mailbox #:

In each exercise some information is given. Use this information and the diagram provided to name the segments that must be parallel. If there are no such segments, write *none*.

1) $\angle 2 \cong \angle 9$

2) $\angle 6 \cong \angle 7$

3) $m\angle 1 = m\angle 8 = 90^\circ$

4) $\angle 5 \cong \angle 9$

5) $m\angle 2 = m\angle 5$

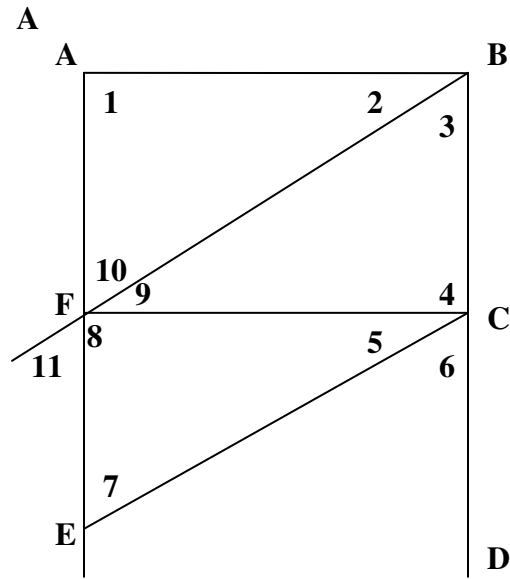
6) $\angle 3 \cong \angle 11$

7) $\overline{FC} \perp \overline{AE}$ and $\overline{FC} \perp \overline{BD}$

8) $m\angle 5 + m\angle 6 = m\angle 9 + m\angle 10$

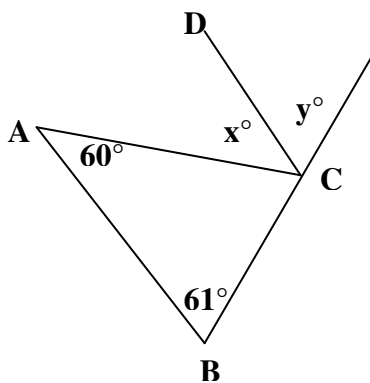
9) $\angle 7$ and $\angle EFB$ are supplementary

10) $m\angle 7 = m\angle 3 = m\angle 10$

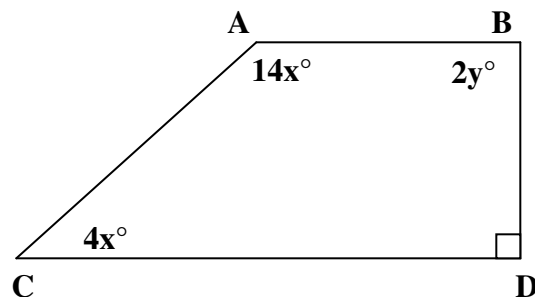


Solve for all the unknown variables.

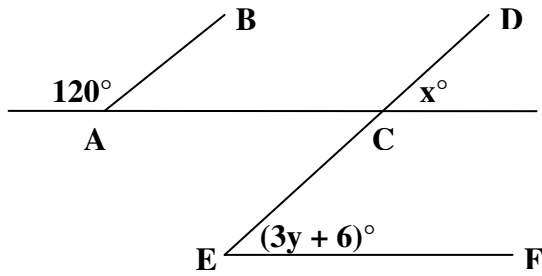
1) line AB $\parallel$ line DC



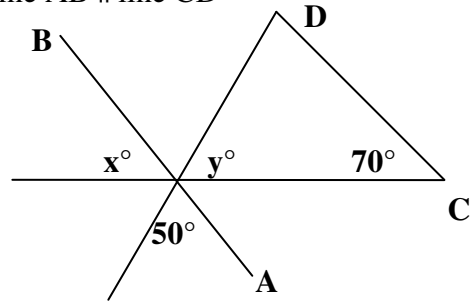
2) line AB $\parallel$ line CD



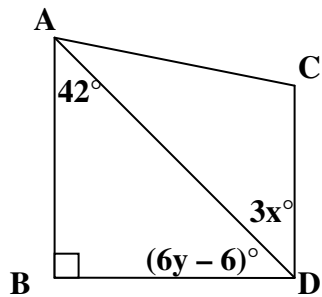
3) line $AB \parallel$ line CD and line $AC \parallel$ line EF



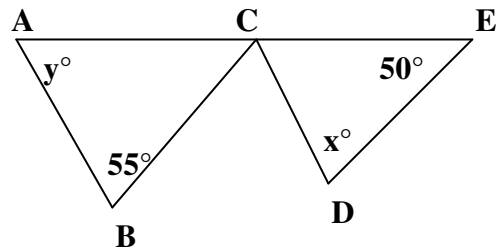
4) line $AB \parallel$ line CD



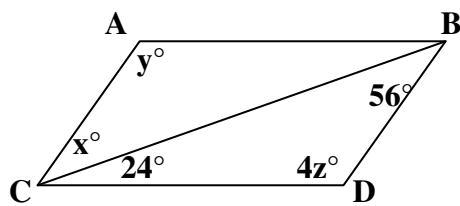
5) line $AB \parallel$ line CD



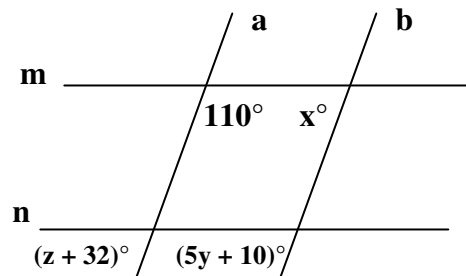
6) line $AB \parallel$ line CD and line $BC \parallel$ line DE



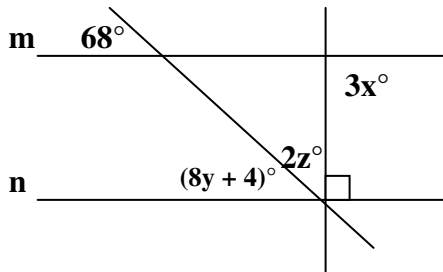
7) line $AB \parallel$ line CD and line $AC \parallel$ line BD



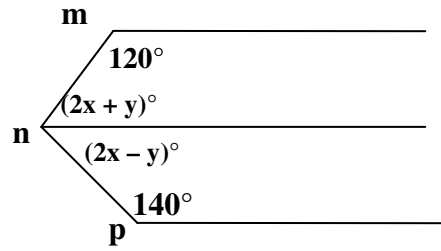
8) $a \parallel b$ and $m \parallel n$



9) $m \parallel n$

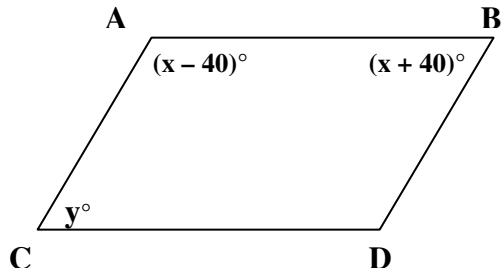


10) $m \parallel n \parallel p$

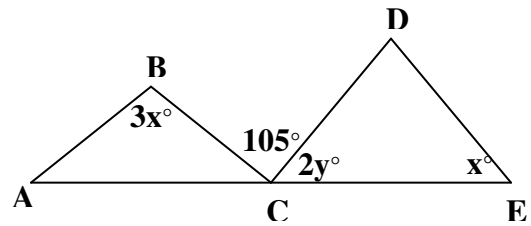


Find the values of x and y that would make:

11) $\overline{AB} \parallel \overline{CD}$ and $\overline{AC} \parallel \overline{BD}$

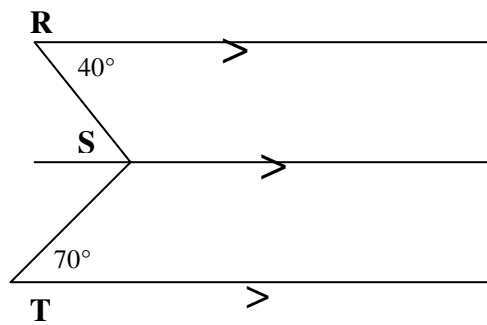


12) $\overline{AB} \parallel \overline{CD}$ and $\overline{BC} \parallel \overline{DE}$



Find the measure of $\angle RST$.

13)



14) the three lines coming from R, S, and T are all parallel

