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) \( \angle 2 \equiv \angle 9 \)
2) \( \angle 6 \equiv \angle 7 \)
3) \( m\angle 1 = m\angle 8 = 90^\circ \)
4) \( \angle 5 \equiv \angle 9 \)
5) \( m\angle 2 = m\angle 5 \)
6) \( \angle 3 \equiv \angle 11 \)
7) \( FC \perp AE \) and \( FC \perp BD \)
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
Find the values of x and y that would make:

11) \( AB \parallel CD \) and \( AC \parallel BD \)

12) \( AB \parallel CD \) and \( BC \parallel DE \)

Find the measure of \(< RST \).

13) the three lines coming from \( R, S, \) and \( T \) are all parallel

14) \( m \parallel n \parallel p \)