

HW KEY

- ① \overline{AB} and \overleftrightarrow{CD} are \perp . \overline{AC} and \overline{BC} are \cong .
- ② \overline{EB}
- ③ $x+12 > 7; x > -5$
- ④ a. 2 intersecting lines form linear pair of \cong \angle 's \rightarrow lines \perp
b. $\overleftrightarrow{DE} \perp \overleftrightarrow{AF}$
c. 2 lines \perp to same line \rightarrow 2 lines \parallel .
- ⑤ The service lines are coplanar lines that are \perp to the same line (the center line), so they must be \parallel to each other.
- ⑥ \overline{WY}
- ⑦ $x+8 < 19; x < 11$
- ⑧ a. Given
b. $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$
c. \perp Transversal Thm.
- ⑨ The frets are lines that are \perp to the same line (the string), so the frets must be \parallel to each other.
- ⑩ $2x-5 > x; x > 5$
- ⑪ $9x-3 > 6x+5; x > \frac{8}{3}$
- ⑫ Yes
- ⑬ No
- ⑭ No
- ⑮ No
- ⑯ Yes
- ⑰ Yes