Ch 2 Review Answers

1) vert $\angle$s $\cong$

2) supp $\cong$ $\angle$s $\cong$

3) Subtraction ($AD - AX = BC - YC$)

4) Addition ($\angle 7 + \angle 8 = \angle 5 + \angle 6$)

5) Division ($\frac{AD}{2} = \frac{BC}{2}$)

6) Transitive

7) Comp $\cong$ $\angle$s $\cong$

8) Multiplication ($2 \cdot \overline{AE} = 2 \cdot \overline{ED}$)

9) S

10) S

11) A

12) A

13) 48

14) 12

15) 63

16) 110

17) 158

18) 35

19) $29°38'47''$

20) 82

21) $\frac{3}{17}$

22) 2) if a ray bisects an $\angle$ → it ÷ the $\angle$ into 2 $\cong$ $\angle$s

4) given

5) if 2 $\angle$s are supp to $\cong$ $\angle$s → they are $\cong$

24)

1) $\overrightarrow{AC}$ bis $\angle BAD$	① given
2) $\angle 3 \cong \angle 4$	② if a ray bis an $\angle$ → it ÷ the $\angle$ into 2 $\cong$ $\angle$s
3) $\angle 1 \cong \angle 4$	③ Vert $\angle$s $\cong$
4) $\angle 2 \cong \angle 3$	④ vert $\angle$s $\cong$
5) $\angle 1 \cong \angle 2$	⑤ transitive

25)

① $\angle 1 \cong \angle 6$	① given
② $\angle 1$ supp $\angle 2$	② if 2 $\angle$s form a str $\angle$ → they are supp
③ $\angle 5$ supp $\angle 6$	③ same as 2
④ $\angle 2 \cong \angle 5$	④ Supp $\cong$ $\angle$s are $\cong$
⑤ $\angle 2$ comp $\angle 3$	⑤ given
⑥ $\angle 5$ comp $\angle 4$	⑥ given
⑦ $\angle 3 \cong \angle 4$	⑦ comp $\cong$ $\angle$s are $\cong$

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