Lesson 5.2
Homework Answers
Pg 251 - #1-25, 35-39 odd, 44, 46, 50-52

1) $\overline{AC}$ is the $\perp$ bisector of $\overline{BD}$

2) 15

3) 18

4) 8

5) The set of point equidistant fm *H & S* is the $\perp$ bisector of $\overline{HS}$.

6) $x = 12$; $JK = 17$; $JM = 17$

7) $y = 3$; $ST = 15$; $TU = 15$

8) $\overrightarrow{HL}$ is the $\angle$ bisector of $\angle JHG$ because a pt on $\overrightarrow{HL}$ is equidistant from *J & G*.

9) $y = 9$; $m\angle FHL = 54; m\angle KHL = 54$

10) 27

11) Pt *E* is on the bisector of $\angle KHF$

12) 5

13) 10

14) 10

15) Isosceles; it has $2 \cong$ sides.

16) equidistant; $RT = RZ$

17) A pt is on the $\perp$ bisector of a segment *iff* it is equidistant fm the endpts of the segment

18) 12

19) 4

20) 4

21) 16

22) 5

23) 10

24) 7

25) 14

35) $C(3, 2)$; $D(3, 0)$; $AC = BC = 3$, $AD = BD = \sqrt{13}$

37) $C(0, 0)$; $D(1, 1)$; $AC = BC = 3$, $AD = BD = \sqrt{5}$

39) $C(\frac{5}{2}, \frac{5}{2})$; $D(5, 3)$; $AC = BC = \frac{\sqrt{26}}{2}$, $AD = BD = \sqrt{13}$

44) $x = 3$

46) $y = -\frac{1}{2}x + 4$

50) D

51) H

52) D