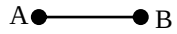
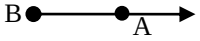
Lesson 1.3
Homework Answers
p. 19 #1-49 odd, 58, 60
p. 23 #1-10

1. 

3. 

5. $\overline{RS}, \overline{RT}, \overline{RW}, \overline{ST}, \overline{SW}, \overline{TW}$

7. a) $\overrightarrow{TS}$ *or* $\overrightarrow{TR}, \overrightarrow{TW}$ b) $\overrightarrow{SR}, \overrightarrow{ST}$

9. Answers may vary…sample:

2; $\overrightarrow{YS}$ *or* $\overrightarrow{YR}, \overrightarrow{YT}$ *or* $\overrightarrow{YW}$

11. $\overline{DF}$

13. $\overline{BE}, \overline{CF}$

15. $\overline{AD}, \overline{AB}, \overline{AC}$

17. $ABC \parallel DEF$

19. $\overleftrightarrow{CF}, \overleftrightarrow{DE}$

21. $\overleftrightarrow{FG}$

23. $\overleftrightarrow{BG}, \overleftrightarrow{DH}, \overleftrightarrow{CL}$

25. true

27. true

29. true

31. False; they are parallel

33. Yes; both name the segment with endpoints *X* and *Y*.

35. Yes; both are the line through pts. *X* and *Y*.

37. always

39. always

41. never

43. always

45. always

1.

47. sometimes

49. a) Answers may vary – sample:

Northeast and southwest

b) Answers may vary – sample:

Northwest and southeast

58. No; 2 different planes cannot intersect in more than 1 line.

60. Answers may vary – sample:

$\overleftrightarrow{VR}, \overleftrightarrow{QR}, \overleftrightarrow{SR}$

Pg. 23

1. 29, 31.5
2. 3.45678, 3.456789
3. For 1: Add 2.5

   For 2: Extend the decimal to 1 more place w/a digit that's 1 more than the 1 to its left.
4. yes, plane *AEF*
5. yes, plane *DCEF*
6. No; *H*, *G* and *F* are in the front plane, *B* is not.
7. No; *A*, *E* and *B* are in the top plane, *C* is not.
8. $\overline{CD}, \overline{AB}, \overline{EF}$
9. Answers may vary – sample:

   $\overleftrightarrow{AE}$ *and* $\overleftrightarrow{BC}$
10. *H*