

### Lesson 1.4

#### Homework Answers

p. 29, #1-35 odd, 43-49 odd, 60, 66, 70-72, 75-78

1. 9, 9; yes

3. 11, 13; no

5.  $XY = ZW$

7.  $YZ < XW$

9. 25

11. a) 7 b)  $RS = 60, ST = 36, RT = 96$

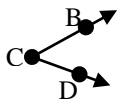
13. 33

15. 130

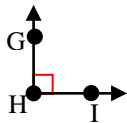
17.  $\angle MCP, \angle PCM, \angle C, \text{ or } \angle 1$

19.  $\angle CBD, \angle DBC$

21.



23.



25. 90; right

27. 34

29.  $Q$

31. -4

33. -2.5, 2.5

35. -6, -1, 1, 6

43. false;  $BD = 9, CD = 2$

45. true;  $AC = 9, CD = 2, AD = 11,$   
&  $9 + 2 = 11$

47. 115

49. Answers may vary – sample:

$(15, 0), (-9, 0), (3, 12), (3, -12)$

60. 150

66. 125

70. a) 19.5

b) 43; 137

c) Answers may vary – sample:

The sum of the  $\angle$  measures should be 180.

71.  $y = 15; AC = 24, DC = 12$

72.  $ED = 10, DB = 10, EB = 20$

75. 12;  $m\angle AOC = 82, m\angle AOB = 32, m\angle BOC = 50$

76. 8;  $m\angle AOB = 30, m\angle BOC = 50, m\angle COD = 30$

77. 18;  $m\angle AOB = 28, m\angle BOC = 52, m\angle AOD = 108$

78. 7;  $m\angle AOB = 31, m\angle BOC = 49, m\angle AOD = 111$