PRACTICE SET 002 ANSWERS

1. 35 cm
2. 6
3. No
4. 13 cm
5. 10 units
6. 12 m
7. 13
8. 25
9. 10 cm
10. 13 m
11. 15 cm
12. Approximately 7.21 units
13. 8
14. 10 cm
15. Approximately 7.07 cm
16. 8
17. Approximately 9.22 units
18. 32 m
19. 20 cm
20. 9 cm
21. 10 cm
22. 14 cm
23. $ t\sqrt{t^2 + 1} $
24. 14 cm
25. $ \sqrt{100 - x^2} $

26. 4 cm and 8 cm
27. Yes
28. 85 cm
29. $ 5\sqrt{2} $ cm
30. 24 cm
31. 10 units
32. $ 5x $
33. 10 cm
34. (Requires cosine rule)
35. 13 m
36. Yes
37. $ s\sqrt{2} $
38. 56 cm
39. 12 cm
40. 25 cm and 60 cm
41. $ 2\sqrt{a^2 + b^2} $
42. 15 m
43. 25 cm
44. 5 units
45. 12 cm
46. Approximately 7.07 cm
47. Approximately 9.17 cm
48. 12 cm
49. 14.14 cm
50. 13 m
51. 4
52. Approximately 14.49 cm
53. 13

54. 7 cm
55. No
56. 12 cm
57. 50 cm
58. 36 m
59. $ a^2 + b^2 = c^2 $
60. Approximately 35.92 cm
61. Approximately 10.39 cm
62. 5 cm
63. Approximately 18.38 cm
64. Approximately 8.70 cm
65. 5 units
66. 12 cm
67. Depends on $ x $ (algebraic expression)
68. $ s\sqrt{3} $
69. 10 cm
70. 17 cm
71. $ 12\sqrt{2} $ m
72. 10 cm
73. Approximately 5.92 units
74. 12 cm
75. 5 m
76. Approximately 12.17 units
77. $ \frac{\sqrt{3}}{2} x $
78. 61 cm
79. 5
80. 7
81. 24 cm

82. $ 4\sqrt{3} $

83. 7 cm

84. Approximately 8.54 m

85. Approximately 56.57 m

86. 15 cm

87. 13

88. Depends on $ x $ (algebraic expression)

89. Approximately 23.87 cm

90. Approximately 7.07 cm

91. 5 cm

92. 3, 4, 5

93. 84

94. 8

95. Approximately 5.83 units

96. 21 cm

97. Approximately 13.86 cm

98. 10 m

99. 6, 8, 10

100. Approximately 23.87 cm