

**61.**  $13|m|$  **63.**  $5x^2\sqrt{5}$  **65.**  $-6|t^3|$

**67.**  $-12|xy|\sqrt{2x}$  **69.**  $-2.2w^2$  **71.**  $\frac{a^2|b^3|\sqrt{3}}{6|c|}$

**73.**  $\frac{3k^4}{4}$  **75.**  $\frac{15x^{20}}{4}$  **77.**  $|a - 2|$  **79.**  $\{-7, 7\}$

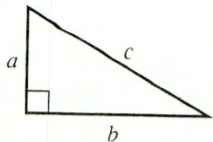
**81.**  $\left\{-\frac{4}{5}, \frac{4}{5}\right\}$  **83.**  $\{-3, 3\}$  **85.**  $\{-11.5, 11.5\}$

**87.**  $\{-6.6, 6.6\}$  **89.** 9.43 **91.** 11.18

**93.** 22.36 **95.** 18.03 **97.** no **99.** no

**101.** no **103.** 30 **105.** 14 **107.**  $72\sqrt{2}$

In Exercises 88–95, refer to the right triangle shown at the right. Find the missing length correct to the nearest hundredth.



(11-6)

88.  $a = 3, b = 4, c = \underline{\quad?}$

5

90.  $a = \underline{\quad?}, b = 9, c = 13$

9.38

92.  $a = 8, b = \underline{\quad?}, c = 16$

13.86

94.  $a = 12, b = \frac{3}{4}a, c = \underline{\quad?}$

15

89.  $a = 5, b = 8, c = \underline{\quad?}$

9.43

91.  $a = \underline{\quad?}, b = 10, c = 15$

11.18

93.  $a = 20, b = \underline{\quad?}, c = 30$

22.36

95.  $a = \frac{2}{3}b, b = 15, c = \underline{\quad?}$

18.02

State whether or not the three numbers given could represent the lengths of the sides of a right triangle.

(11-6)

96. 21, 28, 35 *Yes*

97. 9, 9, 12 *No*

98. 45, 60, 75 *Yes*

99. 31, 41, 51 *No*

100.  $6a, 8a, 10a, a > 0$  *Yes*

101.  $5a, 7a, 9a, a > 0$  *No*