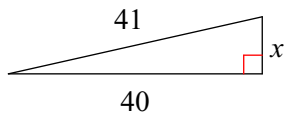


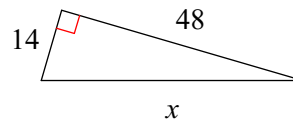
11.1 Pythagorean Theorem

Find the length of the missing side of each triangle.

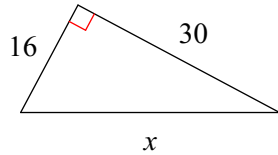
1)



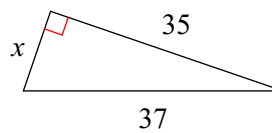
2)



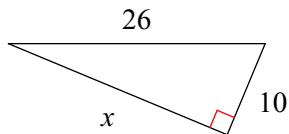
3)



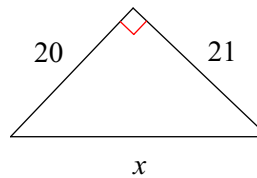
4)



5)

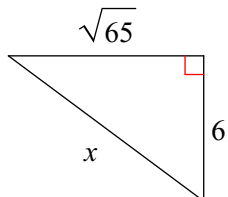


6)

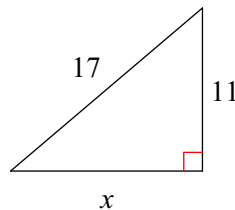


Find the length of the missing side of each triangle. Express your answers in simplest radical form.

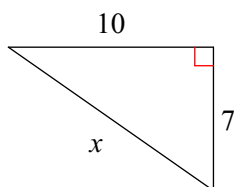
7)



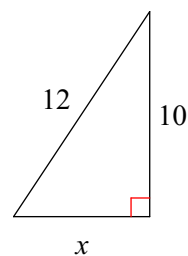
8)



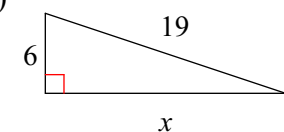
9)



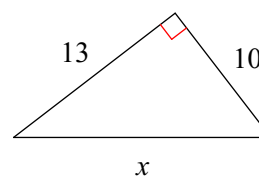
10)



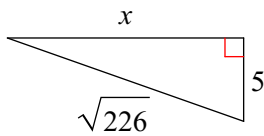
11)



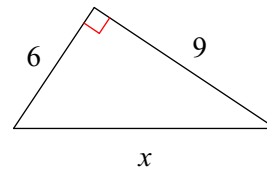
12)



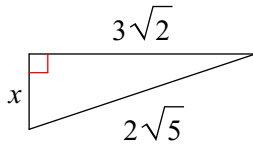
13)



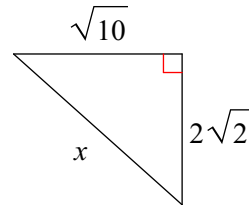
14)



15)

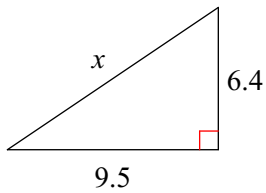


16)

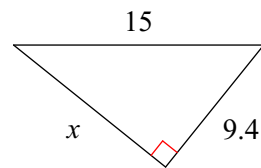


Find the length of the missing side of each triangle. Express your answers as decimals rounded to the nearest tenth.

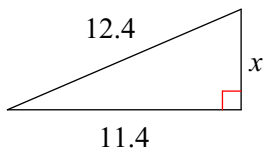
17)



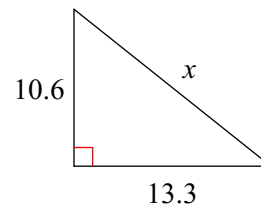
18)



19)



20)



Find the distance between each pair of points. Express your answers as decimals rounded to the nearest tenth.

21) $(3, 7), (-3, 7)$

22) $(-3, 2), (5, -4)$

23) $(5, 5), (6, 1)$

24) $(-4, -7), (-2, -3)$

25) $(-2, 8), (-5, 5)$

26) $(-2, -8), (-7, 4)$

Answers to 11.1 Pythagorean Theorem

1) 9

5) 24

9) $\sqrt{149}$

13) $\sqrt{201}$

17) 11.5

21) 6

25) $3\sqrt{2}$

2) 50

6) 29

10) $2\sqrt{11}$

14) $3\sqrt{13}$

18) 11.7

22) 10

26) 13

3) 34

7) $\sqrt{101}$

11) $5\sqrt{13}$

15) $\sqrt{2}$

19) 4.9

23) $\sqrt{17}$

4) 12

8) $2\sqrt{42}$

12) $\sqrt{269}$

16) $3\sqrt{2}$

20) 17

24) $2\sqrt{5}$