Pre-Algebra II Chapter 11 Practice Test

Simplify each square root.

1. $\sqrt{49}$ 2. $\sqrt{16}$ 3. $-\sqrt{4}$

Do the following three numbers form a right triangle?

4.   3, 4, and 5   5.   9, 12, and 16

Estimate each square root to the nearest whole number.

6. $\sqrt{5}$ 7. $\sqrt{23}$ 8. $\sqrt{141}$

Find the distance between the pair of given endpoints.

9.   (0, 10) and (-1, 13)

Identify each number as rational or irrational.
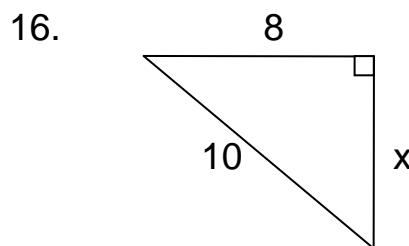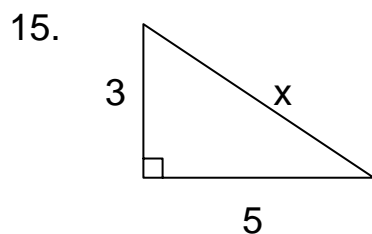
10. 0.65   11.   0.020020002…   12. 0.565656…

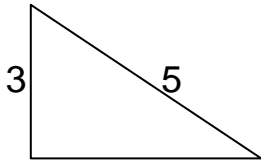**Find the midpoint of each segment with the given endpoints.**

13.   (3, 3) and (5, 7)   14.   (-3, 5) and (5, -2)

Use the Pythagorean Theorem to find "x".

15.

3 ⟋ x
5

16.   8

10 ⟍ x

A

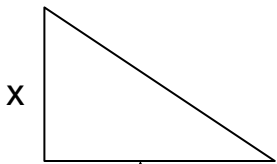**3**   **5**

B   **4**   **C**

17. Find the Sine of angle A.

18. Find the Cosine of angle A.

19. Find the Tangent of angle C.

A

x

B   2   **C**

20. If the Tangent of angle A is 2, find the length of "x".

Answers

1. 7
2. 4
3. -2
4. Yes
5. No
6. 2
7. 5
8. 12
9. $\sqrt{10}$
10. Rational
11. Irrational
12. Rational
13. (4, 5)
14. (1, 1.5)
15. $\sqrt{34}$
16. 6
17. 4/5
18. 3/5
19. 3/4
20. 1