Trigonometry: Practice Activity

Directions: Find the missing side of the right triangle using the Pythagorean Theorem.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.
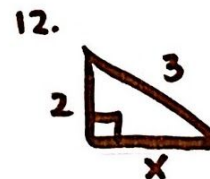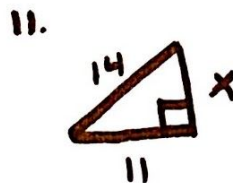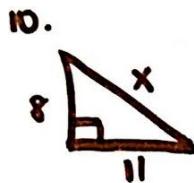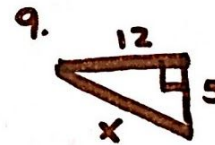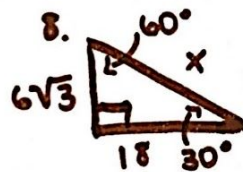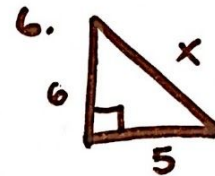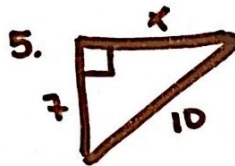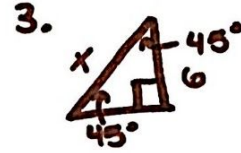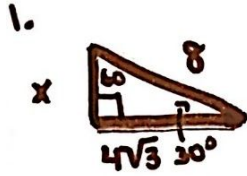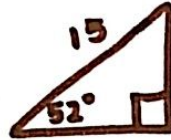
Directions: Find the value of the side or angle as indicated.

1.

17   x   39°

2.

13   52°

3. sin Y

$16\sqrt{2}$ x   Y   24   Z

4. cos C

B   10   A   8   C

5.

19   43°   x

6.

69°   x   11

7. tan N

L   21   M   20   N

8.

x   24°   33

9.

x   11   18

10.

53°   22   x

11.

34°   13   x

12.

38°   19   x
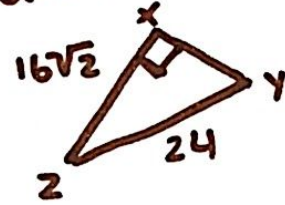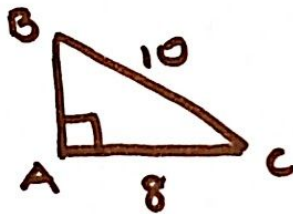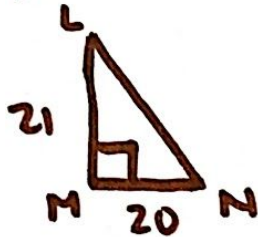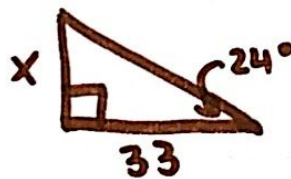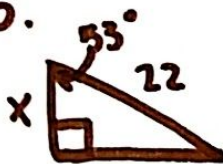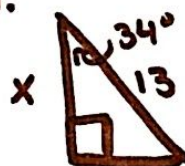
Answer Key:

Pythagorean theorem:

1. 4
2. 5
3. $6\sqrt{2}$
4. 5
5. 7.14
6. 7.81

7. 6.71
8. $12\sqrt{3}$
9. 13
10. 13.6
11. 8.66
12. 2.24

Trig. Ratios:

1. 27.6
2. 23.8
3. $\frac{2\sqrt{2}}{3}$
4. $\frac{4}{5}$
5. 13
6. 11.8

7. $\frac{21}{20}$
8. 14.7
9. 31°
10. 21
11. 10.8
12. 11.4