Geometry B - Unit 9 Right Triangles   Name_____

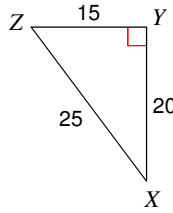# Trig: Finding Missing Sides and Angles

Date_____

Find the value of each trigonometric ratio as fractions in their simplest form.
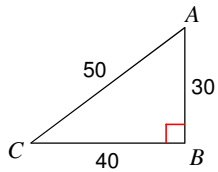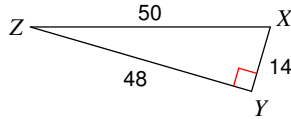
1) tan A

2) sin X

Find the value of each trigonometric ratio as decimals rounded to the ten-thousandths place.
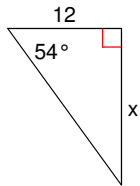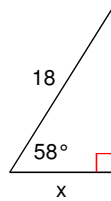
3) cos A

4) tan Z

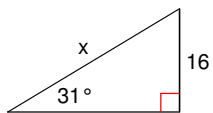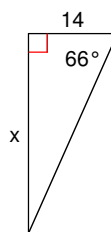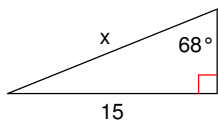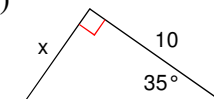**Find the missing side. Round answers to the nearest tenth.**
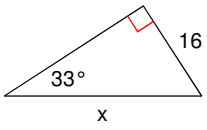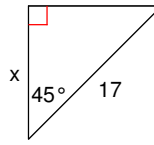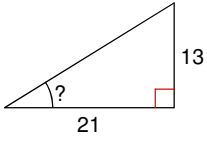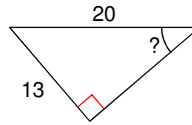
5)

6)

7)

8)

9)

10)

11)

12)

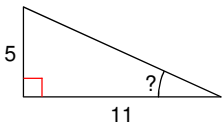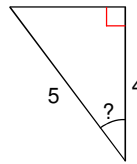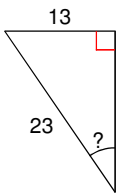**Find the measure of the indicated angle to the nearest degree.**
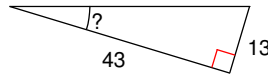
13)

14)

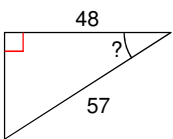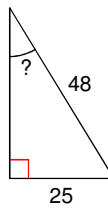15)

16)

17)

18)

19)

20)

Answers to Trig: Finding Missing Sides and Angles

1) $\dfrac{4}{3}$

2) $\dfrac{3}{5}$

3) 0.6000

4) 0.2917

5) 16.5

6) 9.5

7) 31.1

8) 31.4

9) 16.2

10) 7.0

11) 29.4

12) 12.0

13) 32°

14) 41°

15) 24°

16) 37°

17) 34°

18) 17°

19) 33°

20) 31°