Draw △ABC where ∠ABC = 90°, AB = 8, BC = 15, and AC = 17.

1. What is tan C?

2. What is sin A?

Draw △ABC where ∠ACB = 90°, AC = 5, and CB = 12.

3. What is the length of AB?

4. What is cos A?

5. What is tan B?

Draw △CAT where ∠ATC = 90°, CA = 53, and CT = 28.

6. What is the length of AT?

7. What is sin C?

8. What is tan A?

Draw △ABC where ∠B = 90° and $\sin A = \dfrac{12}{20}$.

9. What is the length of AB?

10. What is tan A?

11. What is cos A?

Draw △HAT where ∠H = 90° and $\tan T = \dfrac{12}{35}$.

12. What is the length of AT?

13. What is sin A?

14. What is cos T?

Draw △ABC where ∠ABC = 90°, AB = 8, BC = 15, and AC = 17.

1. What is tan C? $\frac{8}{15}$

2. What is sin A? $\frac{15}{17}$

Draw △ABC where ∠ACB = 90°, AC = 5, and CB = 12.

3. What is the length of AB? <u>13</u>

4. What is cos A? $\frac{5}{13}$

5. What is tan B? $\frac{5}{12}$

Draw △CAT where ∠ATC = 90°, CA = 53, and CT = 28.

6. What is the length of AT? <u>45</u>

7. What is sin C? $\frac{45}{53}$

8. What is tan A? $\frac{28}{45}$

Draw △ABC where ∠B = 90° and $\sin A = \dfrac{12}{20}$.

9. What is the length of AB? <u>16</u>

10. What is tan A? $\frac{3}{4}$

11. What is cos A? $\frac{4}{5}$

Draw △HAT where ∠H = 90° and $\tan T = \dfrac{12}{35}$.

12. What is the length of AT? <u>37</u>

13. What is sin A? $\frac{35}{37}$

14. What is cos T? $\frac{35}{37}$
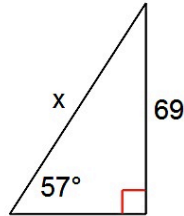
15. Which trig ratio is represented?

    A. SIN
    B. COS
    C. TAN

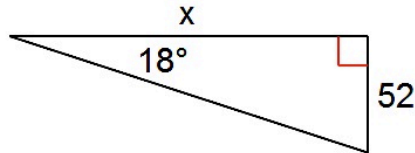69   39°   x
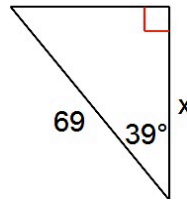
16. Which trig ratio is represented?

    A. SIN
    B. COS
    C. TAN

x   69   57°

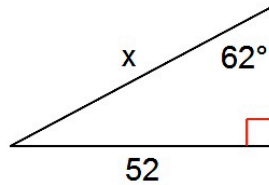17. Which trig ratio is represented?
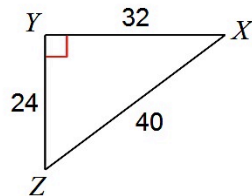
    A. SIN
    B. COS
    C. TAN

x   18°   52

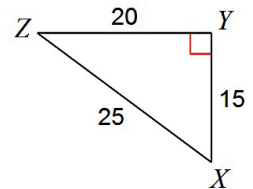18. Which trig ratio is represented?

    A. SIN
    B. COS
    C. TAN

x   62°   52

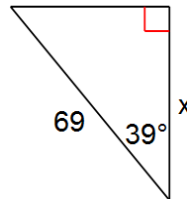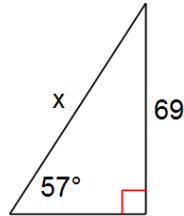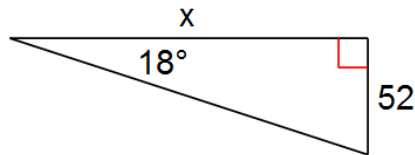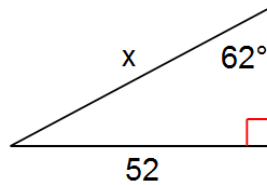*Find each ratio and be sure to reduce, if possible.*

19. Tan Z

Y   32   X
24   40
Z

20. Sin X

Z   20   Y
25   15
X

1. Which trig ratio is represented?

   A. SIN
   B. COS
   C. TAN

   B

2. Which trig ratio is represented?

   A. SIN
   B. COS
   C. TAN

   A

3. Which trig ratio is represented?

   A. SIN
   B. COS
   C. TAN
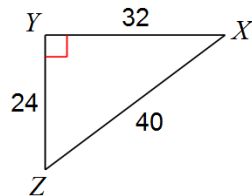
   C

4. Which trig ratio is represented?

   A. SIN
   B. COS
   C. TAN
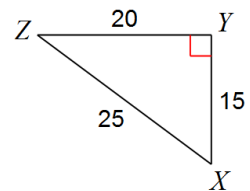
   A

Find each ratio and be sure to reduce, if possible.

5. Tan Z = $\frac{4}{3}$
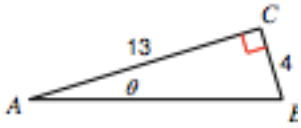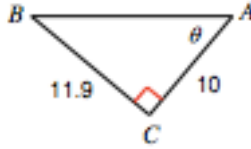
6. Sin X = $\frac{4}{5}$

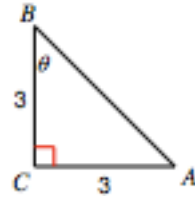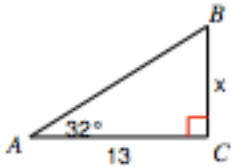*Find the measure of each **angle** indicated. Round to the nearest tenth.*
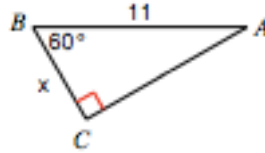
21.

22.

23.
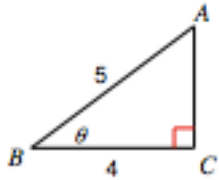
24.

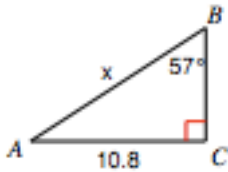*Find the measure of each **side** indicated. Round to the nearest tenth.*
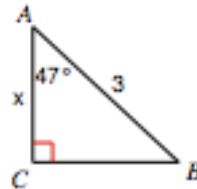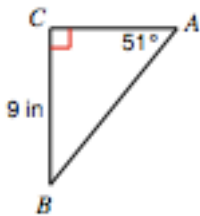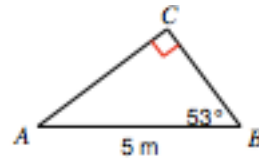
25.

26.

27.

28.

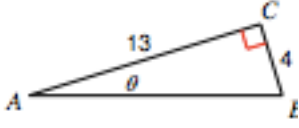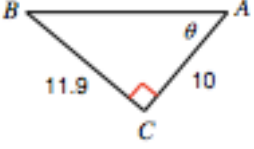*Find all missing sides and all missing angles of the triangle. Round to the nearest tenth.*
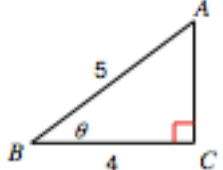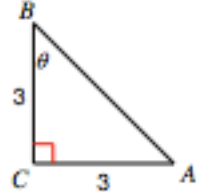
29.

30.

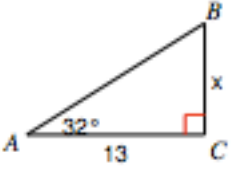*Find the measure of each **angle** indicated. Round to the nearest tenth.*
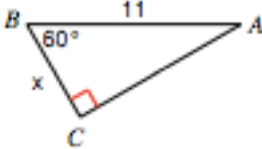
21.
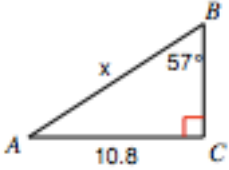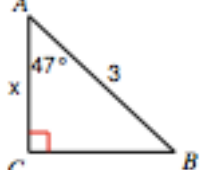
= 17.1°

22.

= 50°

23.

= 36.9°

24.

= 45°

*Find the measure of each **side** indicated. Round to the nearest tenth.*
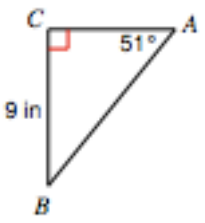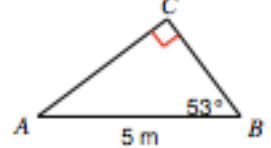
25.

= 8.1

26.

= 5.5

27.

= 12.9

28.

= 2

Find all missing sides and all missing angles of the triangle. Round to the nearest tenth.

29.

30.

>B = 39°
AB = 11.6 in
AC = 7.3 in

>A = 37°
AC= 4 m
BC = 3 m