

Name \_\_\_\_\_

Write the appropriate **solutions**.

**The problems have already been factored.**

1.  $5k(k - 7)(5k + 4) = 0$

1.  $k = \{ \underline{\hspace{2cm}} \}$

2.  $4(m - 3)(m + 11) = 0$

2.  $m = \{ \underline{\hspace{2cm}} \}$

3.  $2f(4f - 5)(3f + 10) = 0$

3.  $f = \{ \underline{\hspace{2cm}} \}$

4.  $(5x + 7)(3x - 11) = 0$

4.  $x = \{ \underline{\hspace{2cm}} \}$

Factor completely then write the appropriate **solutions**.

5.  $2y^2 + 13y = 24$

5.  $y = \{ \underline{\hspace{2cm}} \}$

6.  $6p^2 + 5 = -17p$

6.  $p = \{ \underline{\hspace{2cm}} \}$

7.  $5b^3 + 34b^2 = 7b$

7.  $b = \{ \underline{\hspace{2cm}} \}$

Factor completely then write the appropriate **solutions**.

8.  $\frac{3}{4}h^2 + \frac{7}{8}h - h = 0$

8.  $h = \{ \underline{\hspace{4cm}} \}$

9.  $\frac{1}{12}f^2 - \frac{2}{3}f - 4 = 0$

9.  $f = \{ \underline{\hspace{4cm}} \}$

10.  $g^2 - \frac{g}{5} = \frac{4}{5}$

10.  $g = \{ \underline{\hspace{4cm}} \}$

Factor completely then write the appropriate **solutions**.

11.  $(v-1)(v-1) = 36$

11.  $v = \{ \underline{\hspace{4cm}} \}$

12.  $(3z+2)(z+3) = z+14$

12.  $z = \{ \underline{\hspace{4cm}} \}$

Name \_\_\_\_\_

Factor completely then write the appropriate **solutions**.

13.  $(2x - 1)(3x + 7) = 3x^2 - 2x + 3$

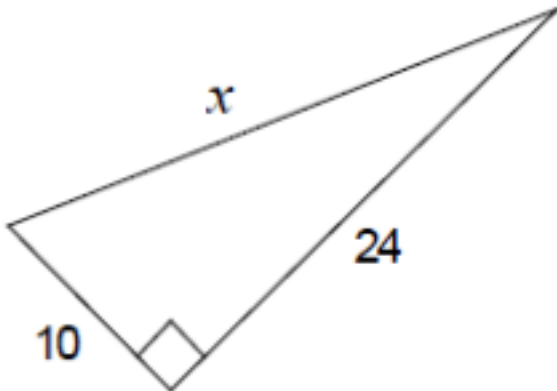
13.  $x = \{ \underline{\hspace{2cm}} \}$

14.  $(4y - 3)(y + 2) = y^2 + 18y - 16$

14.  $y = \{ \underline{\hspace{2cm}} \}$

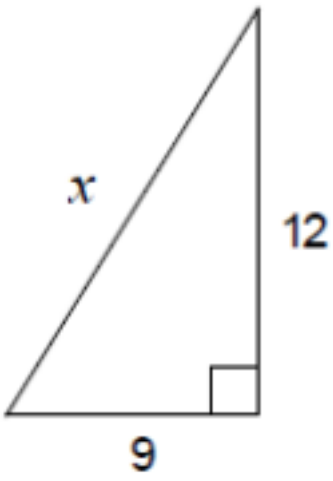
Pythagorean Theorem (**Round Answers to the tenth's place**)

15.



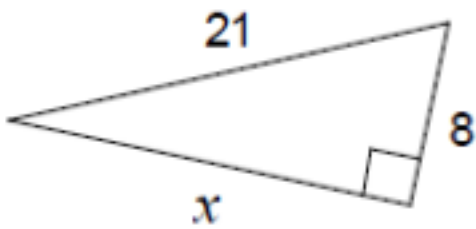
15. \_\_\_\_\_

16.



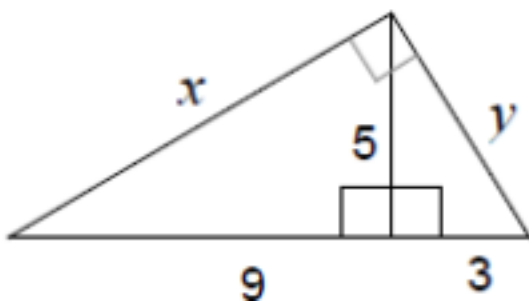
16. \_\_\_\_\_

17.



17. \_\_\_\_\_

18.



18.  $x =$  \_\_\_\_\_

18.  $y =$  \_\_\_\_\_

Name \_\_\_\_\_

19. The bottom of a ladder must be placed 3 feet from a wall. The ladder is 12 feet long. How far above the ground does the ladder touch the wall?

19. \_\_\_\_\_

20. A soccer field is a rectangle 90 meters wide and 120 meters long. The coach asks players to run from one corner to the corner diagonally across the field. How far do the players run?

20. \_\_\_\_\_

Existence and Classifying Triangles:

First determine if the three sides can make a triangle.

If not, write **no triangle**.

If so, classify it as **acute, right, or obtuse**.

21. 9, 12, 15

21. \_\_\_\_\_

22. 11, 13, 25

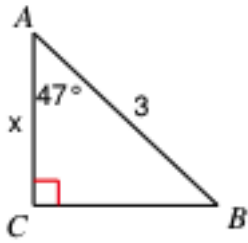
22. \_\_\_\_\_

23. 4, 7, 9

23. \_\_\_\_\_

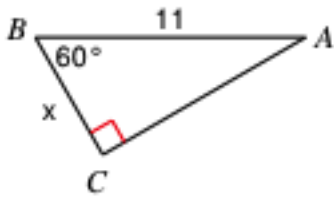
Right Triangle Trigonometry. (Round Answers to the tenth's place)

24.



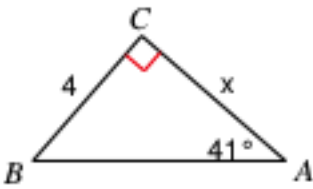
24. \_\_\_\_\_

25.



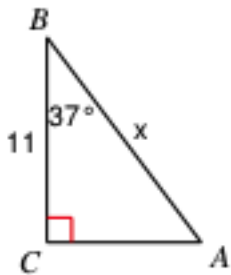
25. \_\_\_\_\_

26.



26. \_\_\_\_\_

27.

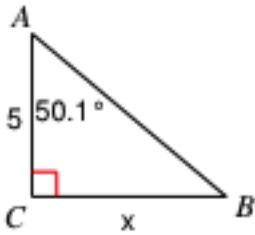


27. \_\_\_\_\_

Name \_\_\_\_\_

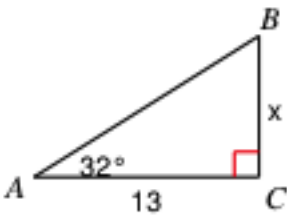
Right Triangle Trigonometry. (Round Answers to the tenth's place)

28.



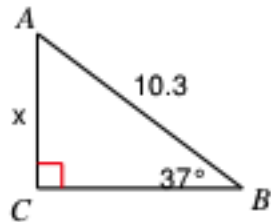
28. \_\_\_\_\_

29.



29. \_\_\_\_\_

30.



30. \_\_\_\_\_

