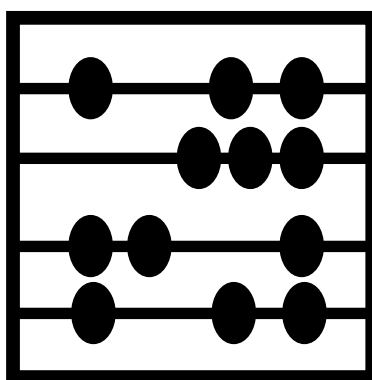

Pythagorean Triples



Geometry

Practice Worksheet

Practice you can't find anywhere else

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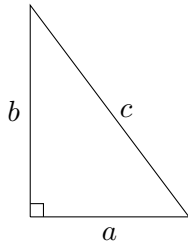
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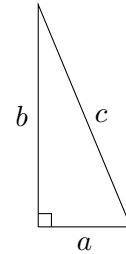
Solve the right triangle for the indicated side.

Type 1: Both legs are given

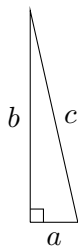
1. If $a = 3$ and $b = 4$, solve for c .



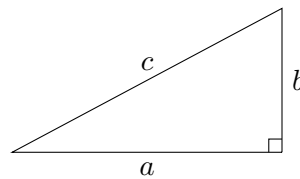
2. If $a = 5$ and $b = 12$, solve for c .



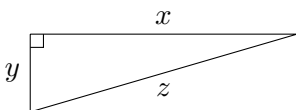
3. If $a = 9$ and $b = 40$, solve for c .



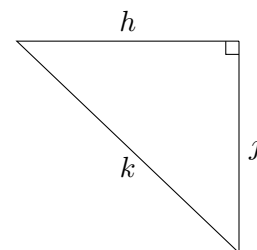
4. If $a = 15$ and $b = 8$, solve for c .



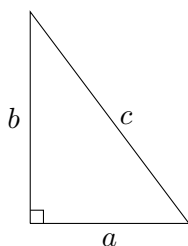
5. If $x = 24$ and $y = 7$, solve for z .



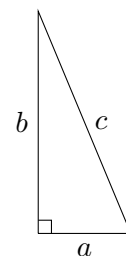
6. If $h = 21$ and $j = 20$, solve for k .



... 7. If $a = 6$ and $b = 8$, solve for c .

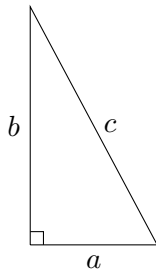


8. If $a = 10$ and $b = 24$, solve for c .

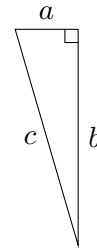




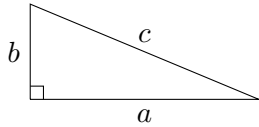
9. If $a = 24$ and $b = 45$, solve for c .



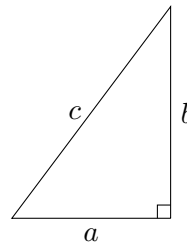
10. If $a = 14$ and $b = 48$, solve for c .



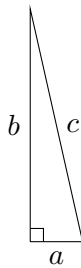
11. If $a = 36$ and $b = 15$, solve for c .



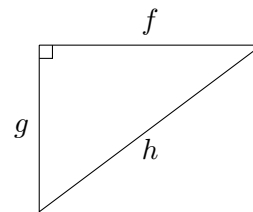
12. If $a = 12$ and $b = 16$, solve for c .



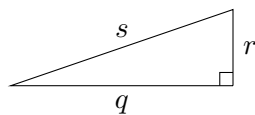
13. If $a = 45$ and $b = 200$, solve for c .



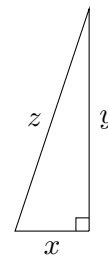
14. If $f = 28$ and $g = 21$, solve for h .



15. If $q = 105$ and $r = 36$, solve for s .



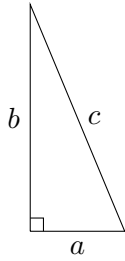
16. If $x = 40$ and $y = 120$, solve for z .



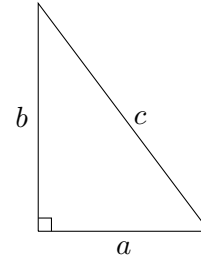


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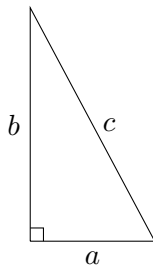
17. If $a = \frac{5}{7}$ and $b = \frac{12}{7}$, solve for c .



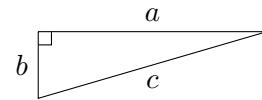
18. If $a = \frac{3}{13}$ and $b = \frac{4}{13}$, solve for c .



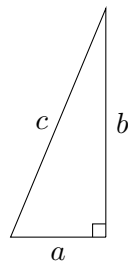
19. If $a = \frac{8}{17}$ and $b = \frac{15}{17}$, solve for c .



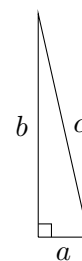
20. If $a = \frac{24}{25}$ and $b = \frac{7}{25}$, solve for c .



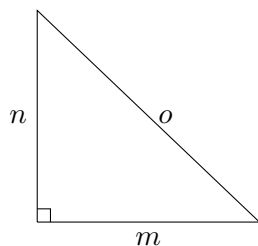
21. If $a = 1$ and $b = \frac{12}{5}$, solve for c .



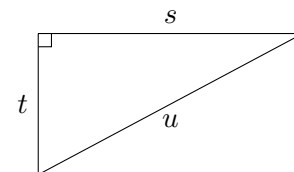
22. If $a = 1$ and $b = \frac{40}{9}$, solve for c .



23. If $m = \frac{21}{2}$ and $n = 10$, solve for o .



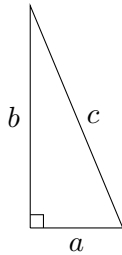
24. If $s = 5$ and $t = \frac{8}{3}$, solve for u .



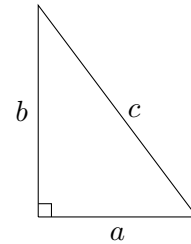


Type 2: Hypotenuse and a leg are given

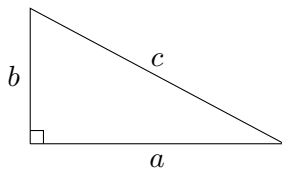
25. If $a = 5$ and $c = 13$, solve for b .



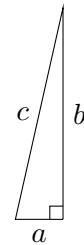
26. If $b = 4$ and $c = 5$, solve for a .



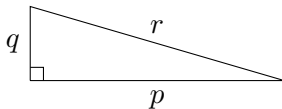
27. If $a = 15$ and $c = 17$, solve for b .



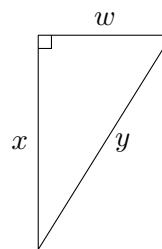
28. If $a = 9$ and $c = 41$, solve for b .



29. If $q = 7$ and $r = 25$, solve for p .

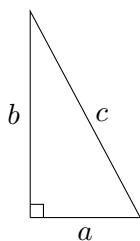


30. If $w = 28$ and $y = 53$, solve for x .

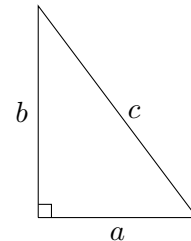


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31. If $b = 30$ and $c = 34$, solve for a .

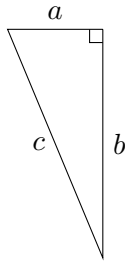


32. If $b = 8$ and $c = 10$, solve for a .

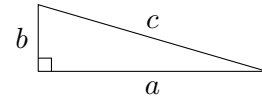




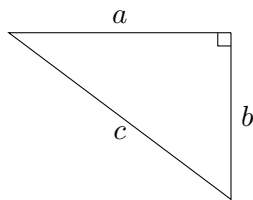
33. If $a = 15$ and $c = 39$, solve for b .



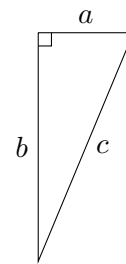
34. If $a = 48$ and $c = 50$, solve for b .



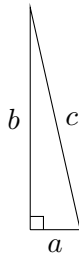
35. If $a = 12$ and $c = 15$, solve for b .



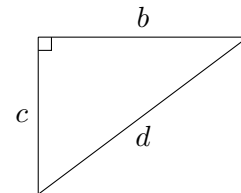
36. If $b = 48$ and $c = 52$, solve for a .



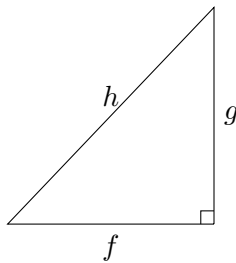
37. If $b = 200$ and $c = 205$, solve for a .



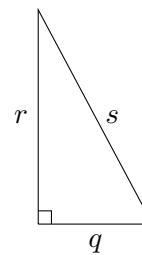
38. If $b = 36$ and $d = 45$, solve for c .



39. If $g = 63$ and $h = 87$, solve for f .



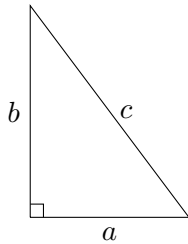
40. If $r = 90$ and $s = 102$, solve for q .



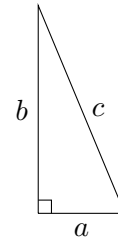


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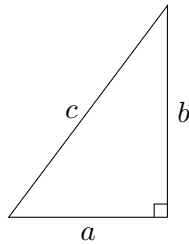
41. If $a = \frac{3}{7}$ and $c = \frac{5}{7}$, solve for b .



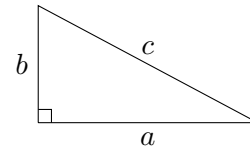
42. If $a = \frac{5}{11}$ and $c = \frac{13}{11}$, solve for b .



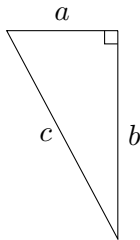
43. If $b = \frac{4}{5}$ and $c = 1$, solve for a .



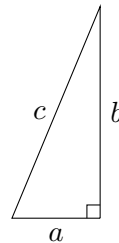
44. If $b = \frac{8}{17}$ and $c = 1$, solve for a .



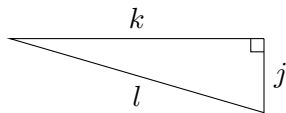
45. If $a = 1$ and $c = \frac{17}{8}$, solve for b .



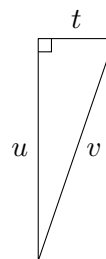
46. If $a = \frac{5}{12}$ and $c = \frac{13}{12}$, solve for b .



47. If $j = 6$ and $l = \frac{25}{4}$, solve for k .



48. If $u = 7$ and $v = \frac{37}{5}$, solve for t .



Type 1: Both legs are given

1. $c = 5$

2. $c = 13$

3. $c = 41$

4. $c = 17$

5. $z = 25$

6. $k = 29$

7. $c = 10$

8. $c = 26$

9. $c = 51$

10. $c = 50$

11. $c = 39$

12. $c = 20$

13. $c = 205$

14. $h = 35$

15. $s = 111$

16. $z = 126$

17. $c = \frac{13}{7}$

18. $c = \frac{5}{13}$

19. $c = 1$

20. $c = 1$



21. $c = \frac{13}{5}$

22. $c = \frac{41}{9}$

23. $o = \frac{29}{2}$

24. $u = \frac{17}{3}$

Type 2: Hypotenuse and a leg are given

25. $b = 12$

26. $a = 3$

27. $b = 8$

28. $b = 40$

29. $p = 24$

30. $x = 45$

31. $a = 16$

32. $a = 6$

33. $b = 36$

34. $b = 14$

35. $b = 9$

36. $a = 20$

37. $a = 45$

38. $c = 27$

39. $f = 60$

40. $q = 48$



41. $b = \frac{4}{7}$

42. $b = \frac{12}{11}$

43. $a = \frac{3}{5}$

44. $a = \frac{15}{17}$

45. $b = \frac{15}{8}$

46. $b = 1$

47. $k = \frac{7}{4}$

48. $t = \frac{12}{5}$