

Name _____



Date _____

Radicals

Given right triangle ABC with hypotenuse c and sides a and b, calculate the length of the missing side.

1. a = 13 b = 6 c = ?	2. a = ? b = 11 c = $\sqrt{202}$	3. a = ? b = 14 c = $\sqrt{221}$
4. a = 8 b = 12 c = ?	5. a = 10 b = ? c = $\sqrt{149}$	6. a = 4 b = ? c = $4\sqrt{10}$
7. a = 9 b = 6 c = ?	8. a = 5 b = 4 c = ?	9. a = 14 b = ? c = $\sqrt{317}$
10. a = ? b = 8 c = $\sqrt{233}$	11. a = ? b = 10 c = $\sqrt{181}$	12. a = 14 b = ? c = $2\sqrt{65}$
13. a = 4 b = 12 c = ?	14. a = 5 b = 6 c = ?	15. a = ? b = 13 c = $\sqrt{218}$
16. a = ? b = 14 c = $\sqrt{317}$	17. a = 12 b = ? c = $4\sqrt{10}$	18. a = ? b = 10 c = $2\sqrt{41}$

$$19. \quad a = 5$$

$$b = 9$$

$$c = ?$$

$$20. \quad a = 11$$

$$b = ?$$

$$c = \sqrt{290}$$

$$21. \quad a = 7$$

$$b = 6$$

$$c = ?$$