



Puzzle Time

What Did The Chef Say To The Hungry Watch?

Write the letter of each answer in the box containing the exercise number.

Solve the equation using square roots. Round your solutions to the nearest hundredth, if necessary.

1. $x^2 = 49$
2. $x^2 = -121$
3. $x^2 - 64 = 0$
4. $5x^2 - 20 = 0$
5. $x^2 + 8 = 15$
6. $-4x^2 - 9 = -9$
7. $16x^2 + 3 = 4$
8. $7x^2 - 10 = 11$
9. $(x + 4)^2 = 0$
10. $(x - 2)^2 = 25$
11. $(5x + 1)^2 = 196$
12. $9(x + 3)^2 = 36$
13. $6x^2 - 15 = 21$
14. $25(x - 8)^2 = 81$
15. You drop a feather from a height of 160 centimeters. The function $h = -16x^2 + 160$ represents the height h (in centimeters) of the feather after x seconds. How long does it take the feather to touch the ground?

Answers

- C. -4
- W. no real solution
- S. $-3, \frac{13}{5}$
- E. $-2.65, 2.65$
- A. $-\frac{1}{4}, \frac{1}{4}$
- B. $-2.45, 2.45$
- N. $-8, 8$
- O. $\frac{31}{5}, \frac{49}{5}$
- S. $-2, 2$
- O. 3.16
- U. $-1.73, 1.73$
- D. $-5, -1$
- O. $-7, 7$
- H. 0
- T. $-3, 7$

6	14	2		7	13	1	8	10		11	5	9	15	3	12	4
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