

In 9 and 10, use the CAS SINON LOG VARS ENTER command to solve each equation.

9. 14k + 35 = 105 _____ **10.** 9.6d - 44 = 3.2d + 40 _____

Name

1-7B

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- In 11 and 12, use the CAS SINON LOG VARS ENTER command to solve for x.
- **11.** -6(5x 13) = 22 _____ **12.** 4x + 3y z = 10 _____
- **13.** Use the CAS SINON LOG VARS ENTER command to solve $4x^2 + 9 = y$ for *x*. What does the display show?
- 14. The total area of two squares is 193 square feet. The length of the side of one square is 5 feet longer than that of the other square.

a. Set up an equation to represent the situation.

- b. Use the CAS <u>SINONLOG</u> VARSENTER command to solve your equation.
- **c.** You should have gotten two answers in Part b. Determine which (if either) solution fits the situation.

PROPERTIES)

Objective I

- **15**. The formula for the volume of a cylinder is $V = \pi r^2 h$. Rewrite this formula for a cylinder whose height is half its radius.
- 16. Multiple Choice A simple pendulum is pictured at the right. The time *T* it takes the pendulum to complete one full swing is approximated by the formula $T = 2\pi \sqrt{\frac{L}{g}}$ where *L* is the length, and *g* is the gravitational constant. Which, if any, of these

equations are equivalent to the given formula?

A
$$\frac{T}{2\pi} = \sqrt{\frac{L}{g}}$$

B $g = 4\pi \frac{L}{T}$
C $2\pi g = \frac{\sqrt{L}}{T}$
D $L = \frac{gT^2}{4\pi^2}$

