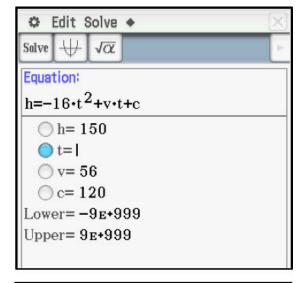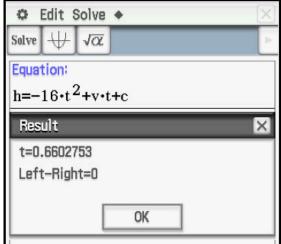# Numerical Solve Menu

To use the Numerical Solve menu, tap the icon, enter the equation in the box, then enter values for the variables. Tap the bullet for the unknown variable and tap 1.

1. If a ball is tossed upwards with an initial velocity of 56 ft/sec, from an initial height of 120 feet, compute the times when the ball is at height 150 feet.

Enter the equation. Note that a times symbol is needed between v and t to distinguish the product from a single variable named vt.

Enter the values of 150, 56, and 120, select the bullet for t and tap Solve.

To compute the second value for t, enter an initial estimate, say 4, for t and tap Solve.

✿ Edit Solve ◆ ⊠

Solve ⊎ √α ▶

Equation:

$$h=-16 \cdot t^2+v \cdot t+c$$

Result ⊠

t=2.8397247

Left−Right=0

OK

2. If a ball is tossed upwards from an initial height of 120 feet, and has height of 160 feet after 2 seconds, compute the initial velocity.

Enter the values of 160, 2, and 120, select the bullet for v and tap Solve.

✿ Edit Solve ◆ ⊠

Solve ⊎ √α ▶

Equation:

$$h=-16 \cdot t^2+v \cdot t+c$$

○ h= 160
○ t= 2
● v= |
○ c= 120

Lower= −9ᴇ+999
Upper= 9ᴇ+999

✿ Edit Solve ◆ ⊠

Solve ⊎ √α ▶

Equation:

$$h=-16 \cdot t^2+v \cdot t+c$$

Result ⊠

v=52

Left−Right=0

OK