

Save Time 3: Intro to Using Memory Locations ClassicView

Objectives:

- Using the ALPHA mode
- Storing and recalling numbers in memory locations
- Use memory locations for more than one variable

Using the ALPHA mode

Graphing calculators store numbers in memory locations called A through Z, accessed using ALPHA. Press

A-lock







, which is the same color as the letters A through Z on the casing.

See this screen:

Notice the cursor changes to the letter A.

Press ALPHA again to return to the normal cursor.




Storing and recalling numbers in memory locations

To store a number in memory, type or calculate the number, then press  and the letter name  of the location, followed by . To retrieve it, press  and the letter name of the location.

Example 1: Store 0.12 in location A, which is above the MATH key:

Press these buttons:       

Answer:

Example 2: Retrieve the number stored in memory location A:   

Answer:

Example 3: Evaluate $3A^2 + 2A - 7$ when $A = 0.12$ using the memory location.

The calculator will substitute 0.12 for each A in $3A^2 + 2A - 7$ and do the arithmetic.

Press these buttons:           

See this screen:

NOTE: The most practical way to “remove” a value from memory is to overwrite it by saving a new number in the same location.

CAUTION: You can erase all memory, including other items, using the menu at



Use memory locations for more than one variable

Example 4: Evaluate $3A^2 + 2B - 7$ when $A = 0.12$ and $B = -.97$ using memory locations. We have already stored $A = 0.12$.

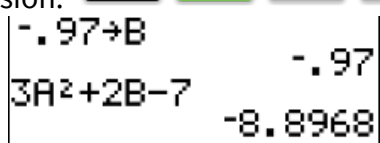
Store $B = -.97$ by pressing these buttons:



Type the expression:



See this screen:



Try It!

Evaluate the given expressions for the values provided.

- $7B^2 + 4B - 11$ when $B = 35.2$.
- $A^2 + B^2 + C^2$ when $A = 0.109$, $B = 35.2$, and $C = 7.06$. Round to the nearest hundredth.

Solutions

1)



35.2->B
7B^2+4B-11
8803.08

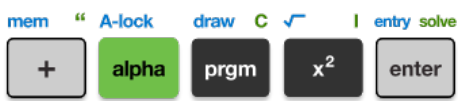
2) Store the values:



Type the expression:



.109->A
7.06->C
A^2+B^2+C^2
1288.895481



Answer: 1288.90