

# Algebraic Substitution.

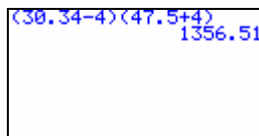
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Select RUN mode from the main menu by using the arrow keys to highlight the RUN icon or pressing 1.



**Example:** Calculate  $V = (A - 4)(B + 4)$  where  $A = 30.34$  and  $B = 47.5$

**Answer:** Enter the calculation by replacing each letter in the formula with its corresponding number. Then press the **EXE** key for the answer.

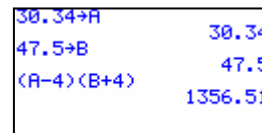


When you have a number of algebraic substitutions to do then it would be easier to use the memory aspect of the calculator keys. There are 28 different storage places i.e.  $A \sim Z$ ,  $\theta$  and  $\Gamma$ .

You 'assign' a value to the letters you want to use, then enter the algebraic expression into the calculator.

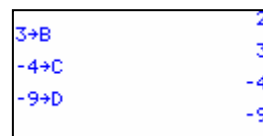
**Example:** Calculate  $V = (A - 4)(B + 4)$  where  $A = 30.34$  and  $B = 47.5$

Using the  $\rightarrow$  'assigns' a number to a letter. Press **EXE** for the calculator to store the value in the memory.



Try,  $A = 2$ ,  $B = 3$ ,  $C = -4$  and  $D = -9$  Calculate

- (a)  $A^2 + 3C$  (b)  $ABCD - AB$   
 (c)  $\frac{AC}{BD}$  (d)  $A^2C^3 - B^3D^2$



Answers:

- (a)  $A^2 + 3C$  -8 (b)  $ABCD - AB$  210 (c)  $\frac{AC}{BD}$  0.2962962963 (d)  $A^2C^3 - B^3D^2$  -2443