



## Advanced Math Assignment 2

Do the following calculator operations in the order they are listed. Whenever a value of a variable in the memory is changed, lightly cross out the old value and write the new value to the right.  $\emptyset$  is zero, O is the letter.

- 1)  $\emptyset \rightarrow J$
- 2)  $(7+3)/2 \rightarrow G$
- 3)  $Q+3 \rightarrow S$
- 4)  $M-N \rightarrow C$
- 5)  $AB+RS \rightarrow K$
- 6)  $(3P^2-4R)/Q \rightarrow I$
- 7)  $12 \rightarrow A$
- 8)  $5 \rightarrow B$
- 9)  $\sqrt{A^2+B^2} \rightarrow C$
- 10)  $17 \rightarrow C$
- 11)  $8 \rightarrow A$
- 12)  $\sqrt{C^2-A^2} \rightarrow B$
- 13)  $1 \rightarrow U$
- 14)  $-5 \rightarrow V$
- 15)  $-6 \rightarrow W$
- 16)  $(-V+\sqrt{V^2-4UW})/(2U) \rightarrow X$
- 17)  $(-V-\sqrt{V^2-4UW})/(2U) \rightarrow Y$

A	0	
B	-7	
C	1.347	
D	354	
E	-24	
F	0	
G	0	
H	-1	
I	88	
J	-9.043	
K	1	
L	31	
M	0	
N	-45	
O	-34	
P	2	
Q	5	
R	-2	
S	13	
T	4	
U	4	
V	-7	
W	0	
X	0	
Y	-2	
Z	9	

18) what could steps 7, 8, 9 above represent?

19) How do steps 10, 11, 12 differ in purpose from 7, 8, 9?

20) What do steps 13, 14, 15, 16, 17 represent?

21) Why do you need steps 16 and 17 both?



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# OLYMPIC STEEL

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Graph each of the following functions. For each, identify

- a) Domain
- b) Range
- c) Zeros
- d) Y-Int

- e) Max's
- f) Min's
- g) Increasing Intervals
- h) Decreasing Intervals

1)  $F(x) = x^2 - 4x - 2$

2)  $F(x) = \frac{1}{x}$

3)  $F(x) = \frac{1}{5}x^3 - 4x + 2$

4)  $F(x) = 4e^{-\frac{x^2}{5}}$

\* careful entering this one!

\* What is the  $e$ ? Remember?

Hint: Look at  $\boxed{2^{nd}}$   $\boxed{\ln}$