

Programs

This edition of fxNews contains six programs in file **PROG07V4.g1m**

There is also the last of our four-part tutorial 'How to write a program for the fx-9860G' that explains how to write your own programs or modify existing ones.

Program List	
BASECONV	* : 1852
BEARINGS	* : 1612
FINDRULE	* : 2160
FXNEWSP3	: 84
FXNEWSP4	: 100
TRAPPEDA	* : 652
EXEC EDIT NEW DEL CLR D	

The collection includes one update of an existing program and five new programs.

Below is a brief description of each new program and the update.

Name	Description
BASECONV	This program is a utility to convert a number from one number base to another.

```
Number base converter
v1.1
F1 Base 10 → n
F2 Base n → 10
F6 Quit
```

```
Number (base 10)?
25
Convert to base?
2
Solution:
11001
- Disp -
```

```
Number (base n)?
11001
Base n?
2
Solution:
25
- Disp -
```

The base must be between 2 and 9 inclusive and the numbers must have 10 or less digits, be whole and positive.

BEARINGS	This program is for solving two types of bearing problems.
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```
Distance-Bearings v1.1
F1 Start
F2 Help
F6 Quit
```

```
- Disp -
Type 1 Problem:
You have a journey
with many stages and
want to find the dist
and bearings to return
to the start.
```

```
- Disp -
Type 2 problem:
X travels to A
Y travels to B
You want the distance
and bearings from
B to A.
```

The first problem type is adding together stages of a journey and then finding the distance and bearing to return to the start.

```
Choose Problem
F1 Add Stages
F2 B to A
F6 Back
```

```
How many stages?
?
```

```
Stage 1
Distance?
25
Bearings?
065
```

```
Stage 2
Distance?
35
Bearings?
170
```

```
- Disp -
Solution
Distance=37.37735506
Bearings
From start=129.8
To start=309.8
```

The second problem type is X travels from the start to point A and Y does the same to point B. The distance of A from B is then required together with the bearing.

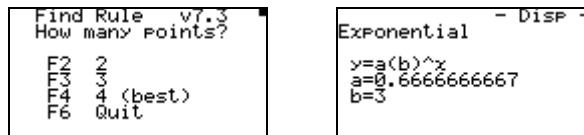
```
Start to A
Distance?
100
Bearings?
315
```

```
Start to B
Distance?
50
Bearings?
015
```

```
- Disp -
Solution
Distance=86.60254038
Bearings
B to A=285.0
A to B=105.0
```


Updates!

Name	Description of update
FINDRULE	This update adds the option of viewing a table of values for the found rule.



After being presented with the screen showing the coefficients for the rule, pressing EXE brings up the option to quit or see a table of values.

X	Y _N
1	21
2	6
3	18
4	54

All programs – updates and originals - have been password protected with the word 'FXNEWS'.