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1: Lbl 95
2: ClrHome
3: Disp "GET SLOPE, ETC."
4: Input "X1= ",F
5: Input "Y1= ",G
6: Input "X2= ",S
7: Input "Y2= ",T
8: If F=S
9: Then
10: Disp "VERTICAL LINE"
11: F→Z
12: prgmTOSTR
13: "X = "+Str9→Str9
14: Disp Str9
15: Else
16: If G=T
17: Then
18: Disp "SLOPE=0"
19: Disp "HORIZONTAL LINE"
20: G→Z
21: prgmTOSTR
22: "Y = "+Str9→Str9
23: Disp Str9
24: Else
25: F-S→D
26: G-T→N
27: If D<0
28: Then
29: -D→D
30: -N→N
31: End
32: 1→P
33: If N<0
34: Then
35: -1→P
36: -N→N
37: End
38: gcd(N,D)→E
39: P*N/E→N
40: D/E→D
41: N/D→M
42: Disp "SLOPE ="
43: Disp M▶Frac
44: N→Z
45: If (N=1)*(D=1)
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46: Then
47: "Y="→Str1
48: Else
49: prgmTOSTR
50: "Y="+Str9→Str1
51: End
52: If D≠1
53: Then
54: D→Z
55: prgmTOSTR
56: Str1+"/ "+Str9→Str1
57: End
58: Str1+" X"→Str1
59: T*D-N*S→K
60: If K≠0
61: Then
62: If K<0
63: Then
64: -1→P
65: -K→K
66: Str1+" - "→Str1
67: Else
68: 1→P
69: Str1+" + "→Str1
70: End
71: gcd(D,K)→E
72: D/E→I
73: K/E→K
74: K→Z
75: prgmTOSTR
76: Str1+Str9→Str1
77: If I≠1
78: Then
79: I→Z
80: prgmTOSTR
81: Str1+"/ "+Str9→Str1
82: End
83: End
84: Disp "Y=MX+B"
85: Pause Str1
86: Disp "AX + BY = C"
87: -N→N
88: If N<0
89: Then
90: -N→N
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91: -D→D
92: End
93: N→Z
94: prgmTOSTR
95: Str9+"X + "→Str1
96: D→Z
97: prgmTOSTR
98: Str1+Str9+"Y = "→Str1
99: N*F+D*G→Z
100: prgmTOSTR
101: Str1+Str9→Str1
102: Pause Str1
103: End
104: End
105: Pause "GO ON..."
106: Goto 95
107:
```