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1: ClrHome
2: Disp "FIND EQUATION"
3: Disp "FROM TWO POINTS"
4: Input "X1:",X
5: Input "Y1:",Y
6: Input "X2:",S
7: Input "Y2:",T
8: S-X→D
9: T-Y→N
10: If D=0
11: Then
12: Disp "VERTICAL"
13: Disp "1X+0Y="
14: Disp X
15: Else
16: If N≠0
17: Then
18: abs(N)→J
19: abs(D)→K
20: gcd(J,K)→L
21: N/L→N
22: D/L→D
23: End
24: N/D→M
25: T-M*S→B
26: If (-N)<0
27: Then
28: -N→N
29: -D→D
30: End
31: Disp "NON-VERTICAL"
32: Disp "SLOPE="
33: Disp M▶Frac
34: Disp "INTERCEPT="
35: Disp B▶Frac
36: Pause "STD EQUATION"
37: Disp "AX + BY = C"
38: Disp -N
39: Disp D
40: Disp B*D
41: End
42:
```