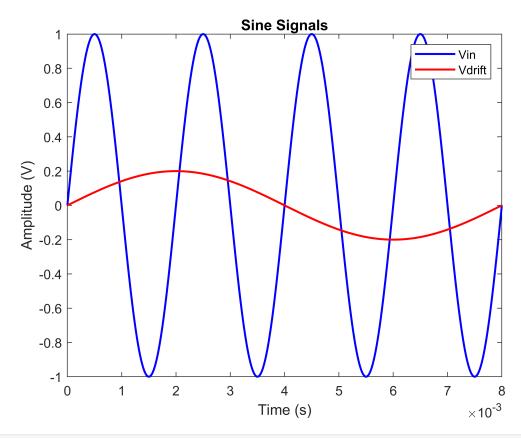
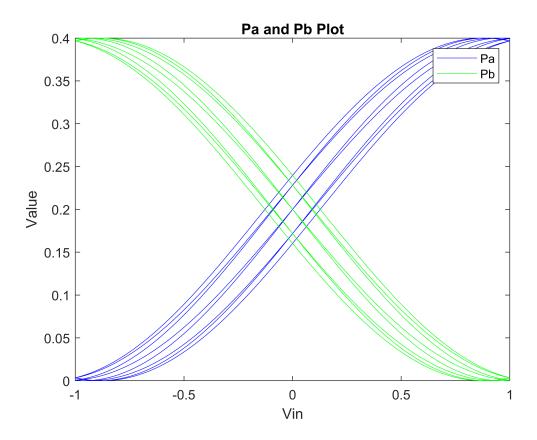
```
% Time vector for input rf volt and drift
t1 = 0:0.00001:0.008;
% RF characteristics
                        % Amplitude 1
A1 = 1;
f1 = 1 / 0.002;
                        % Frequency: 1 cycle in 0.002 sec
omega1 = 2 * pi * f1;
% drift characteristics
            % Amplitude 0.02
308; % Frequency: 1 o
A2 = 0.2;
f2 = 1 / 0.008;
                       % Frequency: 1 cycle in 0.008 sec
omega2 = 2 * pi * f2;
% modulating rf voltag
Vin = A1 * sin(omega1 * t1);
% drit voltage
Vdrift = A2 * sin(omega2 * t1);
%Powerbytwo=0.2 assuming power =0.4W
A = (0.2+0.2*sin((pi*Vin)/2 +Vdrift))
A = 1 \times 801
   0.2000
            0.2102
                    0.2203
                             0.2304
                                      0.2404
                                              0.2502
                                                       0.2598
                                                                0.2693 ...
B = (0.2-0.2*sin((pi*Vin)/2 +Vdrift))
B = 1 \times 801
                                      0.1596
                                                               0.1307 ...
   0.2000
           0.1898 0.1797
                             0.1696
                                              0.1498
                                                       0.1402
% Plotting the signals
plot(t1, Vin, 'b', 'LineWidth', 1.5);hold on;
plot(t1, Vdrift, 'r', 'LineWidth', 1.5);hold off;
title('Sine Signals');xlabel('Time (s)');ylabel('Amplitude (V)');legend('Vin', 'Vdrift');
```



```
% Plot A and B
plot(Vin, A, 'b', 'LineWidth', 0.4);hold on;
plot(Vin, B, 'g', 'LineWidth', 0.4);hold off;
title('Pa and Pb Plot');xlabel('Vin');ylabel('Value');legend('Pa', 'Pb');
```



```
% Define the equations as a function
equations = @(x, A, B) [0.2 + 0.2*sin((pi/2)*x(1) + x(2)) - A; 0.2 - 0.2*sin((pi/2)*x(1) + x(2))]
% initial guesses for Vin and Drift
initialGuess = [0;0];
% Array of values for A and B
A_values = A;
B_values = B;
% Initialize arrays to store Vin and Vdrift values
Vin_values = zeros(801, 1);
Drift_values = zeros(801, 1);
% Run the loop for different values of A and B
for i = 1:801
    % Retrieve values for A and B from the arrays
    A = A_values(i);
    B = B_values(i);
    lb=[-1;-0.2]; %lowerbound
    ub=[1;0.2]; %upperbound
    % solve the system using lsqnonlin
    solution = lsqnonlin(@(x) equations(x, A, B), initialGuess, lb, ub);
    % Extract the values of V and D from the solution
```

```
Vin values(i) = solution(1);
    Drift_values(i) = solution(2);
end
Initial point is a local minimum.
Optimization completed because the size of the gradient at the initial point
is less than the value of the optimality tolerance.
<stopping criteria details>
Local minimum found.
Optimization completed because the size of the gradient is less than
the value of the optimality tolerance.
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lsqnonlin stopped because the final change in the sum of squares relative to its initial value is less than the value of the function tolerance.

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Optimization completed because the size of the gradient is less than
the value of the optimality tolerance.
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Local minimum found....
% Display the results
disp('Vin and Drift values for different combinations of A and B:');
Vin and Drift values for different combinations of A and B:
disp('---');
for i = 1:801
   disp(['Combination ' num2str(i) ': Vin = ' num2str(Vin_values(i)) ', Drift = ' num2str(Drif-
end
Combination 1: Vin = 0, Drift = 0
Combination 2: Vin = 0.028749, Drift = 0.0057499
Combination 3: Vin = 0.057473, Drift = 0.011495
Combination 4: Vin = 0.08614, Drift = 0.017228
Combination 5: Vin = 0.11473, Drift = 0.022945
Combination 6: Vin = 0.1432, Drift = 0.02864
Combination 7: Vin = 0.17154, Drift = 0.034307
Combination 8: Vin = 0.19971, Drift = 0.039941
Combination 9: Vin = 0.22769, Drift = 0.045539
Combination 10: Vin = 0.25546, Drift = 0.051092
Combination 11: Vin = 0.28298, Drift = 0.056595
Combination 12: Vin = 0.31023, Drift = 0.062045
Combination 13: Vin = 0.33718, Drift = 0.067435
Combination 14: Vin = 0.3638, Drift = 0.072761
Combination 15: Vin = 0.39008, Drift = 0.078016
Combination 16: Vin = 0.41598, Drift = 0.083196
Combination 17: Vin = 0.4415, Drift = 0.0883
Combination 18: Vin = 0.46658, Drift = 0.093317
Combination 19: Vin = 0.49122, Drift = 0.098244
Combination 20: Vin = 0.51539, Drift = 0.10308
Combination 21: Vin = 0.53907, Drift = 0.10781
Combination 22: Vin = 0.56222, Drift = 0.11244
Combination 23: Vin = 0.58484, Drift = 0.11697
Combination 24: Vin = 0.60688, Drift = 0.12138
Combination 25: Vin = 0.6284, Drift = 0.12568
Combination 26: Vin = 0.64928, Drift = 0.12986
```

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Combination 27: Vin = 0.66954, Drift = 0.13391
Combination 28: Vin = 0.68916, Drift = 0.13783
Combination 29: Vin = 0.70811, Drift = 0.14162
Combination 30: Vin = 0.72636, Drift = 0.14527
Combination 31: Vin = 0.74384, Drift = 0.14877
Combination 32: Vin = 0.76046, Drift = 0.15209
Combination 33: Vin = 0.77705, Drift = 0.15541
Combination 34: Vin = 0.79243, Drift = 0.15849
Combination 35: Vin = 0.80698, Drift = 0.1614
Combination 36: Vin = 0.82053, Drift = 0.16411
Combination 37: Vin = 0.83279, Drift = 0.16656
Combination 38: Vin = 0.84333, Drift = 0.16867
Combination 39: Vin = 0.85169, Drift = 0.17034
Combination 40: Vin = 0.85752, Drift = 0.1715
Combination 41: Vin = 0.86076, Drift = 0.17215
Combination 42: Vin = 0.86167, Drift = 0.17233
Combination 43: Vin = 0.86072, Drift = 0.17214
Combination 44: Vin = 0.85848, Drift = 0.1717
Combination 45: Vin = 0.85551, Drift = 0.1711
Combination 46: Vin = 0.85227, Drift = 0.17045
Combination 47: Vin = 0.8491, Drift = 0.16982
Combination 48: Vin = 0.84627, Drift = 0.16925
Combination 49: Vin = 0.84394, Drift = 0.16879
Combination 50: Vin = 0.84223, Drift = 0.16845
Combination 51: Vin = 0.8412, Drift = 0.16824
Combination 52: Vin = 0.84088, Drift = 0.16818
Combination 53: Vin = 0.8413, Drift = 0.16826
Combination 54: Vin = 0.84242, Drift = 0.16848
Combination 55: Vin = 0.84422, Drift = 0.16884
Combination 56: Vin = 0.84661, Drift = 0.16932
Combination 57: Vin = 0.84949, Drift = 0.1699
Combination 58: Vin = 0.85267, Drift = 0.17053
Combination 59: Vin = 0.85589, Drift = 0.17118
Combination 60: Vin = 0.85878, Drift = 0.17176
Combination 61: Vin = 0.86089, Drift = 0.17218
Combination 62: Vin = 0.86167, Drift = 0.17233
Combination 63: Vin = 0.86055, Drift = 0.17211
Combination 64: Vin = 0.8571, Drift = 0.17142
Combination 65: Vin = 0.85108, Drift = 0.17022
Combination 66: Vin = 0.84261, Drift = 0.16852
Combination 67: Vin = 0.83202, Drift = 0.1664
Combination 68: Vin = 0.81979, Drift = 0.16396
Combination 69: Vin = 0.80631, Drift = 0.16126
Combination 70: Vin = 0.79188, Drift = 0.15838
Combination 71: Vin = 0.77665, Drift = 0.15533
Combination 72: Vin = 0.76025, Drift = 0.15205
Combination 73: Vin = 0.74384, Drift = 0.14877
Combination 74: Vin = 0.7266, Drift = 0.14532
Combination 75: Vin = 0.70863, Drift = 0.14173
Combination 76: Vin = 0.68999, Drift = 0.138
Combination 77: Vin = 0.67071, Drift = 0.13414
Combination 78: Vin = 0.65084, Drift = 0.13017
Combination 79: Vin = 0.63037, Drift = 0.12607
Combination 80: Vin = 0.60931, Drift = 0.12186
Combination 81: Vin = 0.58777, Drift = 0.11755
Combination 82: Vin = 0.5657, Drift = 0.11314
Combination 83: Vin = 0.54312, Drift = 0.10862
Combination 84: Vin = 0.52007, Drift = 0.10401
Combination 85: Vin = 0.49657, Drift = 0.099313
Combination 86: Vin = 0.47264, Drift = 0.094528
Combination 87: Vin = 0.44831, Drift = 0.089661
Combination 88: Vin = 0.42359, Drift = 0.084717
Combination 89: Vin = 0.39853, Drift = 0.079707
Combination 90: Vin = 0.37315, Drift = 0.07463
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Combination 91: Vin = 0.34747, Drift = 0.069493
Combination 92: Vin = 0.3215, Drift = 0.064301
Combination 93: Vin = 0.29529, Drift = 0.059059
Combination 94: Vin = 0.26886, Drift = 0.053772
Combination 95: Vin = 0.24223, Drift = 0.048446
Combination 96: Vin = 0.21543, Drift = 0.043086
Combination 97: Vin = 0.18849, Drift = 0.037698
Combination 98: Vin = 0.16144, Drift = 0.032288
Combination 99: Vin = 0.1343, Drift = 0.026859
Combination 100: Vin = 0.1071, Drift = 0.021419
Combination 101: Vin = 0.079863, Drift = 0.015973
Combination 102: Vin = 0.052625, Drift = 0.010525
Combination 103: Vin = 0.025409, Drift = 0.0050817
Combination 104: Vin = -0.0017538, Drift = -0.00035075
Combination 105: Vin = -0.028845, Drift = -0.0057689
Combination 106: Vin = -0.055829, Drift = -0.011166
Combination 107: Vin = -0.082681, Drift = -0.016536
Combination 108: Vin = -0.10937, Drift = -0.021875
Combination 109: Vin = -0.13588, Drift = -0.027176
Combination 110: Vin = -0.16218, Drift = -0.032435
Combination 111: Vin = -0.18823, Drift = -0.037646
Combination 112: Vin = -0.21402, Drift = -0.042805
Combination 113: Vin = -0.23952, Drift = -0.047905
Combination 114: Vin = -0.26471, Drift = -0.052941
Combination 115: Vin = -0.28955, Drift = -0.057909
Combination 116: Vin = -0.31402, Drift = -0.062804
Combination 117: Vin = -0.3381, Drift = -0.06762
Combination 118: Vin = -0.36176, Drift = -0.072353
Combination 119: Vin = -0.38499, Drift = -0.076997
Combination 120: Vin = -0.40774, Drift = -0.081549
Combination 121: Vin = -0.43001, Drift = -0.086001
Combination 122: Vin = -0.45179, Drift = -0.090358
Combination 123: Vin = -0.47303, Drift = -0.094605
Combination 124: Vin = -0.49371, Drift = -0.098742
Combination 125: Vin = -0.51382, Drift = -0.10276
Combination 126: Vin = -0.53333, Drift = -0.10667
Combination 127: Vin = -0.55223, Drift = -0.11045
Combination 128: Vin = -0.5705, Drift = -0.1141
Combination 129: Vin = -0.58811, Drift = -0.11762
Combination 130: Vin = -0.60505, Drift = -0.12101
Combination 131: Vin = -0.62128, Drift = -0.12426
Combination 132: Vin = -0.63691, Drift = -0.12738
Combination 133: Vin = -0.65175, Drift = -0.13035
Combination 134: Vin = -0.66586, Drift = -0.13317
Combination 135: Vin = -0.67922, Drift = -0.13584
Combination 136: Vin = -0.69182, Drift = -0.13836
Combination 137: Vin = -0.70365, Drift = -0.14073
Combination 138: Vin = -0.71468, Drift = -0.14294
Combination 139: Vin = -0.7249, Drift = -0.14498
Combination 140: Vin = -0.73429, Drift = -0.14686
Combination 141: Vin = -0.74285, Drift = -0.14857
Combination 142: Vin = -0.75055, Drift = -0.15011
Combination 143: Vin = -0.7574, Drift = -0.15148
Combination 144: Vin = -0.76338, Drift = -0.15268
Combination 145: Vin = -0.76915, Drift = -0.15383
Combination 146: Vin = -0.77356, Drift = -0.15471
Combination 147: Vin = -0.77712, Drift = -0.15542
Combination 148: Vin = -0.77981, Drift = -0.15596
Combination 149: Vin = -0.78164, Drift = -0.15633
Combination 150: Vin = -0.7826, Drift = -0.15652
Combination 151: Vin = -0.78269, Drift = -0.15654
Combination 152: Vin = -0.78192, Drift = -0.15638
Combination 153: Vin = -0.78028, Drift = -0.15606
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Combination 155: Vin = -0.7744, Drift = -0.15488
Combination 156: Vin = -0.77017, Drift = -0.15403
Combination 157: Vin = -0.76454, Drift = -0.15291
Combination 158: Vin = -0.75874, Drift = -0.15175
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Combination 160: Vin = -0.74452, Drift = -0.1489
Combination 161: Vin = -0.73612, Drift = -0.14722
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Combination 163: Vin = -0.71678, Drift = -0.14336
Combination 164: Vin = -0.70588, Drift = -0.14118
Combination 165: Vin = -0.69417, Drift = -0.13883
Combination 166: Vin = -0.68167, Drift = -0.13633
Combination 167: Vin = -0.66839, Drift = -0.13368
Combination 168: Vin = -0.65436, Drift = -0.13087
Combination 169: Vin = -0.63957, Drift = -0.12791
Combination 170: Vin = -0.62398, Drift = -0.1248
Combination 171: Vin = -0.60778, Drift = -0.12156
Combination 172: Vin = -0.59087, Drift = -0.11817
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Combination 175: Vin = -0.53604, Drift = -0.10721
Combination 176: Vin = -0.51647, Drift = -0.10329
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Combination 178: Vin = -0.47552, Drift = -0.095103
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Combination 185: Vin = -0.31529, Drift = -0.063058
Combination 186: Vin = -0.29055, Drift = -0.058111
Combination 187: Vin = -0.26543, Drift = -0.053086
Combination 188: Vin = -0.23994, Drift = -0.047987
Combination 189: Vin = -0.2141, Drift = -0.042821
Combination 190: Vin = -0.18795, Drift = -0.037591
Combination 191: Vin = -0.16152, Drift = -0.032304
Combination 192: Vin = -0.13482, Drift = -0.026964
Combination 193: Vin = -0.10788, Drift = -0.021576
Combination 194: Vin = -0.080732, Drift = -0.016146
Combination 195: Vin = -0.0534, Drift = -0.01068
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Combination 198: Vin = 0.029432, Drift = 0.0058864
Combination 199: Vin = 0.057231, Drift = 0.011446
Combination 200: Vin = 0.085077, Drift = 0.017015
Combination 201: Vin = 0.11294, Drift = 0.022589
Combination 202: Vin = 0.1408, Drift = 0.028161
Combination 203: Vin = 0.16863, Drift = 0.033725
Combination 204: Vin = 0.19639, Drift = 0.039277
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Combination 207: Vin = 0.27904, Drift = 0.055807
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Combination 209: Vin = 0.33332, Drift = 0.066664
Combination 210: Vin = 0.36014, Drift = 0.072028
Combination 211: Vin = 0.38671, Drift = 0.077342
Combination 212: Vin = 0.41299, Drift = 0.082598
Combination 213: Vin = 0.43899, Drift = 0.087798
Combination 214: Vin = 0.46465, Drift = 0.09293
Combination 215: Vin = 0.48995, Drift = 0.09799
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Combination 217: Vin = 0.53939, Drift = 0.10788
Combination 218: Vin = 0.56348, Drift = 0.1127
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Combination 219: Vin = 0.58711, Drift = 0.11742
Combination 220: Vin = 0.61025, Drift = 0.12205
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Combination 222: Vin = 0.65509, Drift = 0.13102
Combination 223: Vin = 0.67669, Drift = 0.13534
Combination 224: Vin = 0.69772, Drift = 0.13954
Combination 225: Vin = 0.71814, Drift = 0.14363
Combination 226: Vin = 0.7379, Drift = 0.14758
Combination 227: Vin = 0.75688, Drift = 0.15138
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Combination 236: Vin = 0.85987, Drift = 0.17197
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Combination 240: Vin = 0.83067, Drift = 0.16613
Combination 241: Vin = 0.82247, Drift = 0.16449
Combination 242: Vin = 0.81483, Drift = 0.16297
Combination 243: Vin = 0.8079, Drift = 0.16158
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Combination 245: Vin = 0.79644, Drift = 0.15929
Combination 246: Vin = 0.79198, Drift = 0.1584
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Combination 257: Vin = 0.80049, Drift = 0.1601
Combination 258: Vin = 0.80646, Drift = 0.16129
Combination 259: Vin = 0.81323, Drift = 0.16265
Combination 260: Vin = 0.82074, Drift = 0.16415
Combination 261: Vin = 0.82885, Drift = 0.16577
Combination 262: Vin = 0.83733, Drift = 0.16747
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Combination 264: Vin = 0.85332, Drift = 0.17066
Combination 265: Vin = 0.85904, Drift = 0.17181
Combination 266: Vin = 0.86163, Drift = 0.17233
Combination 267: Vin = 0.85999, Drift = 0.172
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Combination 276: Vin = 0.72111, Drift = 0.14422
Combination 277: Vin = 0.70063, Drift = 0.14013
Combination 278: Vin = 0.67953, Drift = 0.13591
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Combination 291: Vin = 0.36, Drift = 0.071999
Combination 292: Vin = 0.33278, Drift = 0.066557
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Combination 297: Vin = 0.19351, Drift = 0.038701
Combination 298: Vin = 0.1652, Drift = 0.03304
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Combination 300: Vin = 0.10835, Drift = 0.02167
Combination 301: Vin = 0.079863, Drift = 0.015973
Combination 302: Vin = 0.05137, Drift = 0.010274
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Combination 353: Vin = -0.84111, Drift = -0.16822
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Combination 385: Vin = -0.41318, Drift = -0.082636
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Combination 389: Vin = -0.31592, Drift = -0.063184
Combination 390: Vin = -0.29073, Drift = -0.058147
Combination 391: Vin = -0.26525, Drift = -0.053051
Combination 392: Vin = -0.2395, Drift = -0.047901
Combination 393: Vin = -0.21351, Drift = -0.042702
Combination 394: Vin = -0.1873, Drift = -0.037459
Combination 395: Vin = -0.1609, Drift = -0.032179
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Combination 405: Vin = 0.10763, Drift = 0.021526
Combination 406: Vin = 0.13433, Drift = 0.026866
Combination 407: Vin = 0.1609, Drift = 0.032179
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Combination 410: Vin = 0.2395, Drift = 0.047901
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Combination 413: Vin = 0.31592, Drift = 0.063184
Combination 414: Vin = 0.34078, Drift = 0.068156
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Combination 417: Vin = 0.41318, Drift = 0.082636
Combination 418: Vin = 0.43651, Drift = 0.087303
Combination 419: Vin = 0.45939, Drift = 0.091879
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Combination 423: Vin = 0.54601, Drift = 0.1092
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Combination 426: Vin = 0.60518, Drift = 0.12104
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Combination 437: Vin = 0.77112, Drift = 0.15422
Combination 438: Vin = 0.78173, Drift = 0.15635
Combination 439: Vin = 0.79152, Drift = 0.1583
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Combination 442: Vin = 0.81576, Drift = 0.16315
Combination 443: Vin = 0.82204, Drift = 0.16441
Combination 444: Vin = 0.82739, Drift = 0.16548
Combination 445: Vin = 0.83183, Drift = 0.16637
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Combination 449: Vin = 0.84111, Drift = 0.16822
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Combination 482: Vin = 0.43148, Drift = 0.086296
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Combination 526: Vin = -0.72111, Drift = -0.14422
Combination 527: Vin = -0.74089, Drift = -0.14818
Combination 528: Vin = -0.75986, Drift = -0.15197
Combination 529: Vin = -0.77884, Drift = -0.15577
Combination 530: Vin = -0.79669, Drift = -0.15934
Combination 531: Vin = -0.81366, Drift = -0.16273
Combination 532: Vin = -0.8294, Drift = -0.16588
Combination 533: Vin = -0.84311, Drift = -0.16862
Combination 534: Vin = -0.85366, Drift = -0.17073
Combination 535: Vin = -0.85999, Drift = -0.172
Combination 536: Vin = -0.86163, Drift = -0.17233
Combination 537: Vin = -0.85904, Drift = -0.17181
Combination 538: Vin = -0.85332, Drift = -0.17066
```

```
Combination 539: Vin = -0.84573, Drift = -0.16915
Combination 540: Vin = -0.83733, Drift = -0.16747
Combination 541: Vin = -0.82885, Drift = -0.16577
Combination 542: Vin = -0.82074, Drift = -0.16415
Combination 543: Vin = -0.81323, Drift = -0.16265
Combination 544: Vin = -0.80646, Drift = -0.16129
Combination 545: Vin = -0.80049, Drift = -0.1601
Combination 546: Vin = -0.79536, Drift = -0.15907
Combination 547: Vin = -0.79108, Drift = -0.15822
Combination 548: Vin = -0.78767, Drift = -0.15753
Combination 549: Vin = -0.78513, Drift = -0.15703
Combination 550: Vin = -0.78347, Drift = -0.15669
Combination 551: Vin = -0.78269, Drift = -0.15654
Combination 552: Vin = -0.7828, Drift = -0.15656
Combination 553: Vin = -0.78378, Drift = -0.15676
Combination 554: Vin = -0.78564, Drift = -0.15713
Combination 555: Vin = -0.78837, Drift = -0.15767
Combination 556: Vin = -0.79198, Drift = -0.1584
Combination 557: Vin = -0.79644, Drift = -0.15929
Combination 558: Vin = -0.80176, Drift = -0.16035
Combination 559: Vin = -0.8079, Drift = -0.16158
Combination 560: Vin = -0.81483, Drift = -0.16297
Combination 561: Vin = -0.82247, Drift = -0.16449
Combination 562: Vin = -0.83067, Drift = -0.16613
Combination 563: Vin = -0.83916, Drift = -0.16783
Combination 564: Vin = -0.84743, Drift = -0.16949
Combination 565: Vin = -0.85471, Drift = -0.17094
Combination 566: Vin = -0.85987, Drift = -0.17197
Combination 567: Vin = -0.86166, Drift = -0.17233
Combination 568: Vin = -0.85911, Drift = -0.17182
Combination 569: Vin = -0.85194, Drift = -0.17039
Combination 570: Vin = -0.84074, Drift = -0.16815
Combination 571: Vin = -0.82664, Drift = -0.16533
Combination 572: Vin = -0.81072, Drift = -0.16214
Combination 573: Vin = -0.79367, Drift = -0.15873
Combination 574: Vin = -0.7758, Drift = -0.15516
Combination 575: Vin = -0.75688, Drift = -0.15138
Combination 576: Vin = -0.7379, Drift = -0.14758
Combination 577: Vin = -0.71814, Drift = -0.14363
Combination 578: Vin = -0.69772, Drift = -0.13954
Combination 579: Vin = -0.67669, Drift = -0.13534
Combination 580: Vin = -0.65509, Drift = -0.13102
Combination 581: Vin = -0.63295, Drift = -0.12659
Combination 582: Vin = -0.61025, Drift = -0.12205
Combination 583: Vin = -0.58711, Drift = -0.11742
Combination 584: Vin = -0.56348, Drift = -0.1127
Combination 585: Vin = -0.53939, Drift = -0.10788
Combination 586: Vin = -0.51488, Drift = -0.10298
Combination 587: Vin = -0.48995, Drift = -0.09799
Combination 588: Vin = -0.46465, Drift = -0.09293
Combination 589: Vin = -0.43899, Drift = -0.087798
Combination 590: Vin = -0.41299, Drift = -0.082598
Combination 591: Vin = -0.38671, Drift = -0.077342
Combination 592: Vin = -0.36014, Drift = -0.072028
Combination 593: Vin = -0.33332, Drift = -0.066664
Combination 594: Vin = -0.30628, Drift = -0.061256
Combination 595: Vin = -0.27904, Drift = -0.055807
Combination 596: Vin = -0.25162, Drift = -0.050325
Combination 597: Vin = -0.22407, Drift = -0.044813
Combination 598: Vin = -0.19639, Drift = -0.039277
Combination 599: Vin = -0.16863, Drift = -0.033725
Combination 600: Vin = -0.1408, Drift = -0.028161
Combination 601: Vin = -0.11294, Drift = -0.022589
Combination 602: Vin = -0.085077, Drift = -0.017015
```

```
Combination 603: Vin = -0.057231, Drift = -0.011446
Combination 604: Vin = -0.029432, Drift = -0.0058864
Combination 605: Vin = -0.0017072, Drift = -0.00034145
Combination 606: Vin = 0.025909, Drift = 0.0051819
Combination 607: Vin = 0.0534, Drift = 0.01068
Combination 608: Vin = 0.080732, Drift = 0.016146
Combination 609: Vin = 0.10788, Drift = 0.021576
Combination 610: Vin = 0.13482, Drift = 0.026964
Combination 611: Vin = 0.16152, Drift = 0.032304
Combination 612: Vin = 0.18795, Drift = 0.037591
Combination 613: Vin = 0.2141, Drift = 0.042821
Combination 614: Vin = 0.23994, Drift = 0.047987
Combination 615: Vin = 0.26543, Drift = 0.053086
Combination 616: Vin = 0.29055, Drift = 0.058111
Combination 617: Vin = 0.31529, Drift = 0.063058
Combination 618: Vin = 0.33961, Drift = 0.067922
Combination 619: Vin = 0.36349, Drift = 0.072698
Combination 620: Vin = 0.38691, Drift = 0.077382
Combination 621: Vin = 0.40984, Drift = 0.081967
Combination 622: Vin = 0.43227, Drift = 0.086454
Combination 623: Vin = 0.45417, Drift = 0.090834
Combination 624: Vin = 0.47552, Drift = 0.095103
Combination 625: Vin = 0.49629, Drift = 0.099258
Combination 626: Vin = 0.51647, Drift = 0.10329
Combination 627: Vin = 0.53604, Drift = 0.10721
Combination 628: Vin = 0.55497, Drift = 0.11099
Combination 629: Vin = 0.57326, Drift = 0.11465
Combination 630: Vin = 0.59087, Drift = 0.11817
Combination 631: Vin = 0.60778, Drift = 0.12156
Combination 632: Vin = 0.62398, Drift = 0.1248
Combination 633: Vin = 0.63957, Drift = 0.12791
Combination 634: Vin = 0.65436, Drift = 0.13087
Combination 635: Vin = 0.66839, Drift = 0.13368
Combination 636: Vin = 0.68167, Drift = 0.13633
Combination 637: Vin = 0.69417, Drift = 0.13883
Combination 638: Vin = 0.70588, Drift = 0.14118
Combination 639: Vin = 0.71678, Drift = 0.14336
Combination 640: Vin = 0.72687, Drift = 0.14537
Combination 641: Vin = 0.73612, Drift = 0.14722
Combination 642: Vin = 0.74452, Drift = 0.1489
Combination 643: Vin = 0.75206, Drift = 0.15041
Combination 644: Vin = 0.75874, Drift = 0.15175
Combination 645: Vin = 0.76454, Drift = 0.15291
Combination 646: Vin = 0.77017, Drift = 0.15403
Combination 647: Vin = 0.7744, Drift = 0.15488
Combination 648: Vin = 0.77777, Drift = 0.15555
Combination 649: Vin = 0.78028, Drift = 0.15606
Combination 650: Vin = 0.78192, Drift = 0.15638
Combination 651: Vin = 0.78269, Drift = 0.15654
Combination 652: Vin = 0.7826, Drift = 0.15652
Combination 653: Vin = 0.78164, Drift = 0.15633
Combination 654: Vin = 0.77981, Drift = 0.15596
Combination 655: Vin = 0.77712, Drift = 0.15542
Combination 656: Vin = 0.77356, Drift = 0.15471
Combination 657: Vin = 0.76915, Drift = 0.15383
Combination 658: Vin = 0.76338, Drift = 0.15268
Combination 659: Vin = 0.7574, Drift = 0.15148
Combination 660: Vin = 0.75055, Drift = 0.15011
Combination 661: Vin = 0.74285, Drift = 0.14857
Combination 662: Vin = 0.73429, Drift = 0.14686
Combination 663: Vin = 0.7249, Drift = 0.14498
Combination 664: Vin = 0.71468, Drift = 0.14294
Combination 665: Vin = 0.70365, Drift = 0.14073
Combination 666: Vin = 0.69182, Drift = 0.13836
```

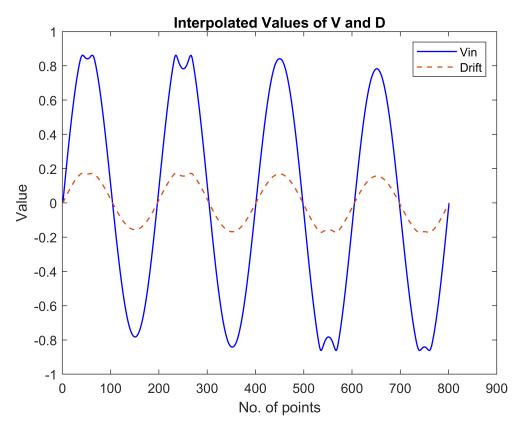
```
Combination 667: Vin = 0.67922, Drift = 0.13584
Combination 668: Vin = 0.66586, Drift = 0.13317
Combination 669: Vin = 0.65175, Drift = 0.13035
Combination 670: Vin = 0.63691, Drift = 0.12738
Combination 671: Vin = 0.62128, Drift = 0.12426
Combination 672: Vin = 0.60505, Drift = 0.12101
Combination 673: Vin = 0.58811, Drift = 0.11762
Combination 674: Vin = 0.5705, Drift = 0.1141
Combination 675: Vin = 0.55223, Drift = 0.11045
Combination 676: Vin = 0.53333, Drift = 0.10667
Combination 677: Vin = 0.51382, Drift = 0.10276
Combination 678: Vin = 0.49371, Drift = 0.098742
Combination 679: Vin = 0.47303, Drift = 0.094605
Combination 680: Vin = 0.45179, Drift = 0.090358
Combination 681: Vin = 0.43001, Drift = 0.086001
Combination 682: Vin = 0.40774, Drift = 0.081549
Combination 683: Vin = 0.38499, Drift = 0.076997
Combination 684: Vin = 0.36176, Drift = 0.072353
Combination 685: Vin = 0.3381, Drift = 0.06762
Combination 686: Vin = 0.31402, Drift = 0.062804
Combination 687: Vin = 0.28955, Drift = 0.057909
Combination 688: Vin = 0.26471, Drift = 0.052941
Combination 689: Vin = 0.23952, Drift = 0.047905
Combination 690: Vin = 0.21402, Drift = 0.042805
Combination 691: Vin = 0.18823, Drift = 0.037646
Combination 692: Vin = 0.16218, Drift = 0.032435
Combination 693: Vin = 0.13588, Drift = 0.027176
Combination 694: Vin = 0.10937, Drift = 0.021875
Combination 695: Vin = 0.082681, Drift = 0.016536
Combination 696: Vin = 0.055829, Drift = 0.011166
Combination 697: Vin = 0.028845, Drift = 0.0057689
Combination 698: Vin = 0.0017538, Drift = 0.00035075
Combination 699: Vin = -0.025409, Drift = -0.0050817
Combination 700: Vin = -0.052625, Drift = -0.010525
Combination 701: Vin = -0.079863, Drift = -0.015973
Combination 702: Vin = -0.1071, Drift = -0.021419
Combination 703: Vin = -0.1343, Drift = -0.026859
Combination 704: Vin = -0.16144, Drift = -0.032288
Combination 705: Vin = -0.18849, Drift = -0.037698
Combination 706: Vin = -0.21543, Drift = -0.043086
Combination 707: Vin = -0.24223, Drift = -0.048446
Combination 708: Vin = -0.26886, Drift = -0.053772
Combination 709: Vin = -0.29529, Drift = -0.059059
Combination 710: Vin = -0.3215, Drift = -0.064301
Combination 711: Vin = -0.34747, Drift = -0.069493
Combination 712: Vin = -0.37315, Drift = -0.07463
Combination 713: Vin = -0.39853, Drift = -0.079707
Combination 714: Vin = -0.42359, Drift = -0.084717
Combination 715: Vin = -0.44831, Drift = -0.089661
Combination 716: Vin = -0.47264, Drift = -0.094528
Combination 717: Vin = -0.49657, Drift = -0.099313
Combination 718: Vin = -0.52007, Drift = -0.10401
Combination 719: Vin = -0.54312, Drift = -0.10862
Combination 720: Vin = -0.5657, Drift = -0.11314
Combination 721: Vin = -0.58777, Drift = -0.11755
Combination 722: Vin = -0.60931, Drift = -0.12186
Combination 723: Vin = -0.63037, Drift = -0.12607
Combination 724: Vin = -0.65084, Drift = -0.13017
Combination 725: Vin = -0.67071, Drift = -0.13414
Combination 726: Vin = -0.68999, Drift = -0.138
Combination 727: Vin = -0.70863, Drift = -0.14173
Combination 728: Vin = -0.7266, Drift = -0.14532
Combination 729: Vin = -0.74384, Drift = -0.14877
Combination 730: Vin = -0.76025, Drift = -0.15205
```

```
Combination 731: Vin = -0.77665, Drift = -0.15533
Combination 732: Vin = -0.79188, Drift = -0.15838
Combination 733: Vin = -0.80631, Drift = -0.16126
Combination 734: Vin = -0.81979, Drift = -0.16396
Combination 735: Vin = -0.83202, Drift = -0.1664
Combination 736: Vin = -0.84261, Drift = -0.16852
Combination 737: Vin = -0.85108, Drift = -0.17022
Combination 738: Vin = -0.8571, Drift = -0.17142
Combination 739: Vin = -0.86055, Drift = -0.17211
Combination 740: Vin = -0.86167, Drift = -0.17233
Combination 741: Vin = -0.86089, Drift = -0.17218
Combination 742: Vin = -0.85878, Drift = -0.17176
Combination 743: Vin = -0.85589, Drift = -0.17118
Combination 744: Vin = -0.85267, Drift = -0.17053
Combination 745: Vin = -0.84949, Drift = -0.1699
Combination 746: Vin = -0.84661, Drift = -0.16932
Combination 747: Vin = -0.84422, Drift = -0.16884
Combination 748: Vin = -0.84242, Drift = -0.16848
Combination 749: Vin = -0.8413, Drift = -0.16826
Combination 750: Vin = -0.84088, Drift = -0.16818
Combination 751: Vin = -0.8412, Drift = -0.16824
Combination 752: Vin = -0.84223, Drift = -0.16845
Combination 753: Vin = -0.84394, Drift = -0.16879
Combination 754: Vin = -0.84627, Drift = -0.16925
Combination 755: Vin = -0.8491, Drift = -0.16982
Combination 756: Vin = -0.85227, Drift = -0.17045
Combination 757: Vin = -0.85551, Drift = -0.1711
Combination 758: Vin = -0.85848, Drift = -0.1717
Combination 759: Vin = -0.86072, Drift = -0.17214
Combination 760: Vin = -0.86167, Drift = -0.17233
Combination 761: Vin = -0.86076, Drift = -0.17215
Combination 762: Vin = -0.85752, Drift = -0.1715
Combination 763: Vin = -0.85169, Drift = -0.17034
Combination 764: Vin = -0.84333, Drift = -0.16867
Combination 765: Vin = -0.83279, Drift = -0.16656
Combination 766: Vin = -0.82053, Drift = -0.16411
Combination 767: Vin = -0.80698, Drift = -0.1614
Combination 768: Vin = -0.79243, Drift = -0.15849
Combination 769: Vin = -0.77705, Drift = -0.15541
Combination 770: Vin = -0.76046, Drift = -0.15209
Combination 771: Vin = -0.74384, Drift = -0.14877
Combination 772: Vin = -0.72636, Drift = -0.14527
Combination 773: Vin = -0.70811, Drift = -0.14162
Combination 774: Vin = -0.68916, Drift = -0.13783
Combination 775: Vin = -0.66954, Drift = -0.13391
Combination 776: Vin = -0.64928, Drift = -0.12986
Combination 777: Vin = -0.6284, Drift = -0.12568
Combination 778: Vin = -0.60688, Drift = -0.12138
Combination 779: Vin = -0.58484, Drift = -0.11697
Combination 780: Vin = -0.56222, Drift = -0.11244
Combination 781: Vin = -0.53907, Drift = -0.10781
Combination 782: Vin = -0.51539, Drift = -0.10308
Combination 783: Vin = -0.49122, Drift = -0.098244
Combination 784: Vin = -0.46658, Drift = -0.093317
Combination 785: Vin = -0.4415, Drift = -0.0883
Combination 786: Vin = -0.41598, Drift = -0.083196
Combination 787: Vin = -0.39008, Drift = -0.078016
Combination 788: Vin = -0.3638, Drift = -0.072761
Combination 789: Vin = -0.33718, Drift = -0.067435
Combination 790: Vin = -0.31023, Drift = -0.062045
Combination 791: Vin = -0.28298, Drift = -0.056595
Combination 792: Vin = -0.25546, Drift = -0.051092
Combination 793: Vin = -0.22769, Drift = -0.045539
Combination 794: Vin = -0.19971, Drift = -0.039941
```

```
Combination 795: Vin = -0.17154, Drift = -0.034307 Combination 796: Vin = -0.1432, Drift = -0.02864 Combination 797: Vin = -0.11473, Drift = -0.022945 Combination 798: Vin = -0.08614, Drift = -0.017228 Combination 799: Vin = -0.057473, Drift = -0.011495 Combination 800: Vin = -0.028749, Drift = -0.0057499 Combination 801: Vin = 0, Drift = 0
```

```
% Interpolate the values of V and D
t_interp = linspace(1, 801, 801); % Time points for interpolation
V_interp = interp1(1:801, Vin_values, t_interp, 'spline'); % Interpolated values of V
D_interp = interp1(1:801, Drift_values, t_interp, 'spline'); % Interpolated values of D

% Plot the graph
figure;
plot(t_interp, V_interp, 'b', 'LineWidth', 1);hold on;
plot(t_interp, D_interp,'--', 'LineWidth', 1);hold off;
xlabel('No. of points');ylabel('Value');legend('Vin', 'Drift');title('Interpolated Values of V
```



```
% Display the results
disp('Interpolated values of Vin and Drift:');
```

Interpolated values of Vin and Drift:

```
disp(['Time points: ' num2str(t_interp)]);
Time points: 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21
```

```
disp(['Vin: ' num2str(V_interp)]);
Vin: 0 0.028749 0.057473
                              0.08614
                                        0.11473
                                                    0.1432
                                                             0.17154
                                                                        0.19971
                                                                                  0.22769
                                                                                             0.25546
disp(['Drift: ' num2str(D_interp)]);
Drift: 0 0.0057499 0.011495
                               0.017228
                                         0.022945
                                                     0.02864
                                                              0.034307
                                                                         0.039941
                                                                                   0.045539
                                                                                              0.05109
```