

```

% Time vector for input rf volt and drift
t1 = 0:0.00001:0.008;

% RF characteristics
A1 = 1; % Amplitude 1
f1 = 1 / 0.002; % Frequency: 1 cycle in 0.002 sec
omega1 = 2 * pi * f1;

% drift characteristics
A2 = 0.2; % Amplitude 0.02
f2 = 1 / 0.008; % Frequency: 1 cycle in 0.008 sec
omega2 = 2 * pi * f2;

% modulating rf voltage
Vin = A1 * sin(omega1 * t1);

% drift voltage
Vdrift = A2 * sin(omega2 * t1);

%Powerbytwo=0.2 assuming power =0.4W
A = (0.2+0.2*sin((pi*Vin)/2 +Vdrift))

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```

A = 1×801
    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))

```

```

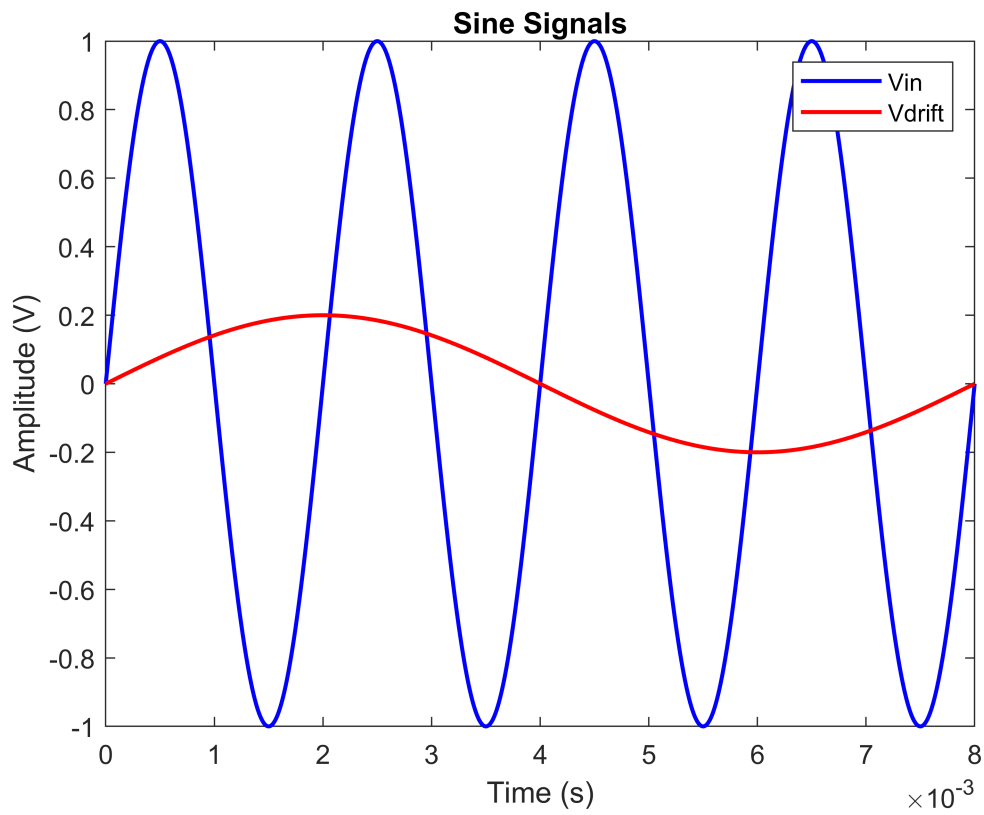
B = 1×801
    0.2000    0.1898    0.1797    0.1696    0.1596    0.1498    0.1402    0.1307 ...

```

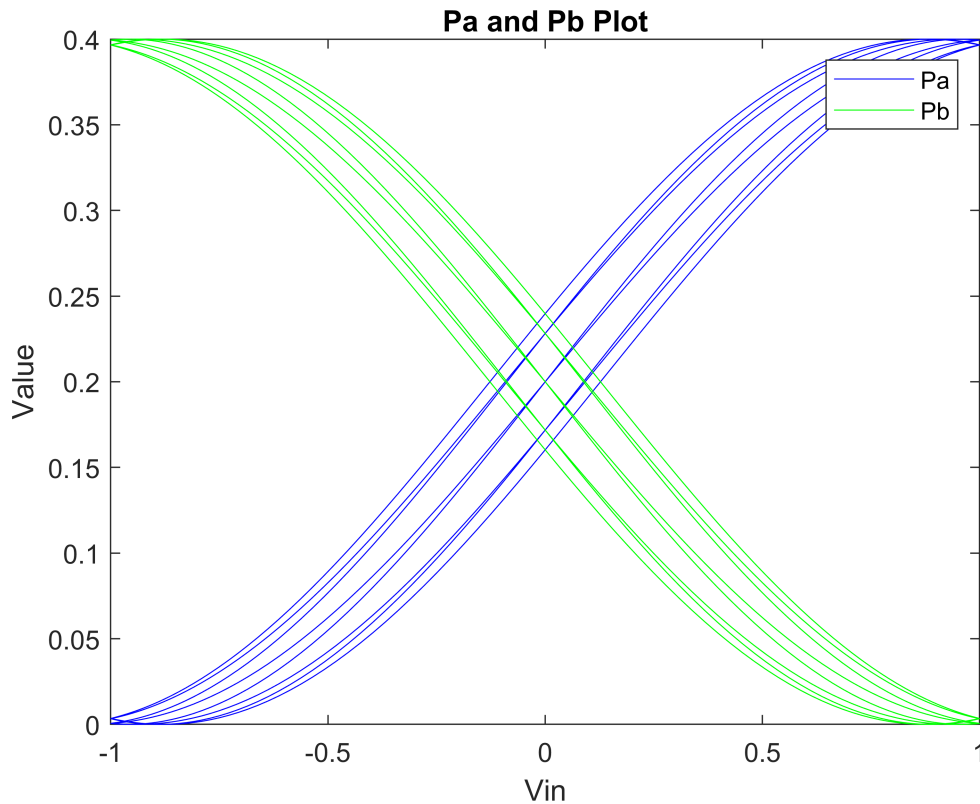
```

% 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)) - B];

% 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);

    solution = fsolve(@(x) equations(x, A, B), initialGuess);

    % Extract the values of V and D from the solution
    Vin_values(i) = solution(1);
    Drift_values(i) = solution(2);
end
```

end

Equation solved at initial point.

fsolve completed because the vector of function values at the initial point is near zero as measured by the value of the function tolerance, and the problem appears regular as measured by the gradient.

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```
%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(Drift
end
```

```
Combination 1: Vin = 0, Drift = 0
Combination 2: Vin = 0.023063, Drift = 0.014683
Combination 3: Vin = 0.046105, Drift = 0.029351
Combination 4: Vin = 0.069102, Drift = 0.043992
Combination 5: Vin = 0.092033, Drift = 0.05859
Combination 6: Vin = 0.11488, Drift = 0.073132
Combination 7: Vin = 0.14364, Drift = 0.078123
Combination 8: Vin = 0.16021, Drift = 0.10199
Combination 9: Vin = 0.17779, Drift = 0.12393
Combination 10: Vin = 0.20493, Drift = 0.13046
Combination 11: Vin = 0.22701, Drift = 0.14452
Combination 12: Vin = 0.26185, Drift = 0.13804
Combination 13: Vin = 0.27056, Drift = 0.17208
Combination 14: Vin = 0.29184, Drift = 0.18579
Combination 15: Vin = 0.31293, Drift = 0.19922
Combination 16: Vin = 0.3453, Drift = 0.19424
Combination 17: Vin = 0.36787, Drift = 0.20395
Combination 18: Vin = 0.42112, Drift = 0.16472
Combination 19: Vin = 0.40122, Drift = 0.2396
Combination 20: Vin = 0.56073, Drift = 0.031867
Combination 21: Vin = 0.43244, Drift = 0.2753
Combination 22: Vin = 0.6358, Drift = -0.0031163
Combination 23: Vin = 0.46917, Drift = 0.29868
Combination 24: Vin = 0.49122, Drift = 0.30312
Combination 25: Vin = 0.50958, Drift = 0.31232
Combination 26: Vin = 0.50404, Drift = 0.35799
Combination 27: Vin = 0.79168, Drift = -0.057956
Combination 28: Vin = 0.56094, Drift = 0.33923
Combination 29: Vin = 0.57957, Drift = 0.34351
Combination 30: Vin = 0.58268, Drift = 0.37107
Combination 31: Vin = 0.59382, Drift = 0.38472
Combination 32: Vin = 0.59183, Drift = 0.41775
Combination 33: Vin = 0.49972, Drift = 0.59104
Combination 34: Vin = 0.6411, Drift = 0.39626
Combination 35: Vin = 0.65418, Drift = 0.40161
Combination 36: Vin = 0.65625, Drift = 0.42279
Combination 37: Vin = 0.69252, Drift = 0.38849
Combination 38: Vin = 0.67126, Drift = 0.44447
Combination 39: Vin = 0.68815, Drift = 0.43809
Combination 40: Vin = 0.74125, Drift = 0.37238
Combination 41: Vin = 0.71437, Drift = 0.42728
Combination 42: Vin = 0.68696, Drift = 0.47452
Combination 43: Vin = 0.93624, Drift = 0.078577
Combination 44: Vin = 0.70494, Drift = 0.43288
Combination 45: Vin = 0.84697, Drift = 0.19969
Combination 46: Vin = 0.49279, Drift = 0.74654
Combination 47: Vin = 0.70854, Drift = 0.39939
Combination 48: Vin = 0.70475, Drift = 0.39852
Combination 49: Vin = 0.75952, Drift = 0.30718
Combination 50: Vin = 0.62034, Drift = 0.52204
Combination 51: Vin = 0.70442, Drift = 0.38773
Combination 52: Vin = 0.68188, Drift = 0.42248
Combination 53: Vin = 1.0455, Drift = -0.14786
Combination 54: Vin = 0.61365, Drift = 0.53295
Combination 55: Vin = 0.68035, Drift = 0.43216
Combination 56: Vin = 0.75093, Drift = 0.32677
Combination 57: Vin = 0.71063, Drift = 0.39706
```



Combination 58: Vin = 0.67043, Drift = 0.46861  
Combination 59: Vin = 1.0692, Drift = -0.14817  
Combination 60: Vin = 0.69694, Drift = 0.44659  
Combination 61: Vin = 0.74098, Drift = 0.38608  
Combination 62: Vin = 0.69015, Drift = 0.46952  
Combination 63: Vin = 1.0602, Drift = -0.11686  
Combination 64: Vin = 0.59868, Drift = 0.59487  
Combination 65: Vin = 0.5731, Drift = 0.61721  
Combination 66: Vin = -0.053244, Drift = 1.5809  
Combination 67: Vin = 0.55337, Drift = 0.60561  
Combination 68: Vin = 0.67177, Drift = 0.39706  
Combination 69: Vin = 0.77664, Drift = 0.20806  
Combination 70: Vin = 0.55486, Drift = 0.53074  
Combination 71: Vin = 0.67417, Drift = 0.31632  
Combination 72: Vin = 0.65522, Drift = 0.3178  
Combination 73: Vin = 0.59684, Drift = 0.37996  
Combination 74: Vin = 0.59412, Drift = 0.35353  
Combination 75: Vin = 0.61166, Drift = 0.29402  
Combination 76: Vin = 0.4519, Drift = 0.51197  
Combination 77: Vin = 0.45016, Drift = 0.48058  
Combination 78: Vin = 0.54179, Drift = 0.30145  
Combination 79: Vin = 0.50569, Drift = 0.32193  
Combination 80: Vin = 0.71309, Drift = -0.04108  
Combination 81: Vin = 0.40317, Drift = 0.40755  
Combination 82: Vin = 0.49943, Drift = 0.21724  
Combination 83: Vin = 0.45012, Drift = 0.25471  
Combination 84: Vin = 0.42788, Drift = 0.24882  
Combination 85: Vin = 0.39834, Drift = 0.25361  
Combination 86: Vin = 0.49621, Drift = 0.057492  
Combination 87: Vin = 0.35963, Drift = 0.22895  
Combination 88: Vin = 0.35295, Drift = 0.1957  
Combination 89: Vin = 0.31971, Drift = 0.20353  
Combination 90: Vin = 0.30784, Drift = 0.17723  
Combination 91: Vin = 0.27874, Drift = 0.17745  
Combination 92: Vin = 0.25791, Drift = 0.16419  
Combination 93: Vin = 0.23688, Drift = 0.15081  
Combination 94: Vin = 0.21568, Drift = 0.13731  
Combination 95: Vin = 0.19432, Drift = 0.12371  
Combination 96: Vin = 0.17282, Drift = 0.11002  
Combination 97: Vin = 0.15121, Drift = 0.096261  
Combination 98: Vin = 0.12951, Drift = 0.082446  
Combination 99: Vin = 0.10773, Drift = 0.068585  
Combination 100: Vin = 0.085913, Drift = 0.054694  
Combination 101: Vin = 0.064066, Drift = 0.040786  
Combination 102: Vin = 0.042216, Drift = 0.026875  
Combination 103: Vin = 0.020383, Drift = 0.012976  
Combination 104: Vin = -0.0014094, Drift = -0.00089722  
Combination 105: Vin = -0.02314, Drift = -0.014731  
Combination 106: Vin = -0.044786, Drift = -0.028512  
Combination 107: Vin = -0.066327, Drift = -0.042225  
Combination 108: Vin = -0.08774, Drift = -0.055857  
Combination 109: Vin = -0.109, Drift = -0.069394  
Combination 110: Vin = -0.12832, Drift = -0.085619  
Combination 111: Vin = -0.151, Drift = -0.096128  
Combination 112: Vin = -0.18337, Drift = -0.090955  
Combination 113: Vin = -0.19217, Drift = -0.12229  
Combination 114: Vin = -0.21215, Drift = -0.13549  
Combination 115: Vin = -0.23245, Drift = -0.1476  
Combination 116: Vin = -0.25195, Drift = -0.1603  
Combination 117: Vin = -0.28356, Drift = -0.15329  
Combination 118: Vin = -0.29793, Drift = -0.17262  
Combination 119: Vin = -0.31813, Drift = -0.18202  
Combination 120: Vin = -0.33737, Drift = -0.1921  
Combination 121: Vin = -0.43403, Drift = -0.079719

Combination 122: Vin = -0.36104, Drift = -0.23291  
 Combination 123: Vin = -0.37946, Drift = -0.24157  
 Combination 124: Vin = -0.35751, Drift = -0.31268  
 Combination 125: Vin = -0.43291, Drift = -0.22986  
 Combination 126: Vin = -0.4006, Drift = -0.31517  
 Combination 127: Vin = -0.44529, Drift = -0.27843  
 Combination 128: Vin = -0.45791, Drift = -0.29097  
 Combination 129: Vin = -0.47185, Drift = -0.30027  
 Combination 130: Vin = -0.7067, Drift = 0.038608  
 Combination 131: Vin = -0.53255, Drift = -0.26374  
 Combination 132: Vin = -0.75879, Drift = 0.064068  
 Combination 133: Vin = -0.78056, Drift = 0.071991  
 Combination 134: Vin = -0.6348, Drift = -0.18196  
 Combination 135: Vin = -0.54487, Drift = -0.34688  
 Combination 136: Vin = -0.5703, Drift = -0.32924  
 Combination 137: Vin = -0.56207, Drift = -0.3631  
 Combination 138: Vin = -0.68814, Drift = -0.1846  
 Combination 139: Vin = -0.58155, Drift = -0.37024  
 Combination 140: Vin = -0.58913, Drift = -0.37505  
 Combination 141: Vin = -0.61026, Drift = -0.35713  
 Combination 142: Vin = -0.92542, Drift = 0.12412  
 Combination 143: Vin = -0.62862, Drift = -0.35441  
 Combination 144: Vin = -0.67847, Drift = -0.28694  
 Combination 145: Vin = -0.61592, Drift = -0.39452  
 Combination 146: Vin = -0.56592, Drift = -0.48088  
 Combination 147: Vin = -0.62282, Drift = -0.39779  
 Combination 148: Vin = -0.6524, Drift = -0.35611  
 Combination 149: Vin = -0.97982, Drift = 0.15496  
 Combination 150: Vin = -0.50462, Drift = -0.59319  
 Combination 151: Vin = -0.76569, Drift = -0.18327  
 Combination 152: Vin = -0.79366, Drift = -0.13797  
 Combination 153: Vin = -0.65708, Drift = -0.3496  
 Combination 154: Vin = -0.62334, Drift = -0.39816  
 Combination 155: Vin = -0.61143, Drift = -0.41088  
 Combination 156: Vin = -0.61783, Drift = -0.39333  
 Combination 157: Vin = -0.70773, Drift = -0.2431  
 Combination 158: Vin = -0.60821, Drift = -0.3889  
 Combination 159: Vin = -0.89998, Drift = 0.081453  
 Combination 160: Vin = -0.73594, Drift = -0.16269  
 Combination 161: Vin = -0.91602, Drift = 0.13517  
 Combination 162: Vin = -0.55019, Drift = -0.423  
 Combination 163: Vin = -0.44486, Drift = -0.57047  
 Combination 164: Vin = -0.45641, Drift = -0.53302  
 Combination 165: Vin = -0.55328, Drift = -0.36013  
 Combination 166: Vin = -0.52414, Drift = -0.38376  
 Combination 167: Vin = -0.81013, Drift = 0.088964  
 Combination 168: Vin = -0.52492, Drift = -0.33418  
 Combination 169: Vin = -0.51307, Drift = -0.32663  
 Combination 170: Vin = -0.50062, Drift = -0.3187  
 Combination 171: Vin = -0.71056, Drift = 0.039822  
 Combination 172: Vin = -0.47399, Drift = -0.3018  
 Combination 173: Vin = -0.48083, Drift = -0.25985  
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 Combination 176: Vin = -0.4143, Drift = -0.26379  
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 Combination 178: Vin = -0.38605, Drift = -0.23563  
 Combination 179: Vin = -0.46922, Drift = -0.067188  
 Combination 180: Vin = -0.34677, Drift = -0.22076  
 Combination 181: Vin = -0.32808, Drift = -0.21041  
 Combination 182: Vin = -0.31057, Drift = -0.1973  
 Combination 183: Vin = -0.29159, Drift = -0.18563  
 Combination 184: Vin = -0.25703, Drift = -0.19764  
 Combination 185: Vin = -0.2633, Drift = -0.14473

Combination 186: Vin = -0.22302, Drift = -0.16419  
 Combination 187: Vin = -0.21273, Drift = -0.13587  
 Combination 188: Vin = -0.20889, Drift = -0.09676  
 Combination 189: Vin = -0.17176, Drift = -0.10934  
 Combination 190: Vin = -0.15078, Drift = -0.095988  
 Combination 191: Vin = -0.12781, Drift = -0.08525  
 Combination 192: Vin = -0.10815, Drift = -0.068852  
 Combination 193: Vin = -0.086543, Drift = -0.055095  
 Combination 194: Vin = -0.064764, Drift = -0.04123  
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 Combination 196: Vin = -0.020785, Drift = -0.013232  
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 Combination 198: Vin = 0.023611, Drift = 0.015031  
 Combination 199: Vin = 0.045911, Drift = 0.029228  
 Combination 200: Vin = 0.068249, Drift = 0.043449  
 Combination 201: Vin = 0.090604, Drift = 0.05768  
 Combination 202: Vin = 0.11295, Drift = 0.071908  
 Combination 203: Vin = 0.1374, Drift = 0.082783  
 Combination 204: Vin = 0.15754, Drift = 0.10029  
 Combination 205: Vin = 0.15107, Drift = 0.15948  
 Combination 206: Vin = 0.20171, Drift = 0.12872  
 Combination 207: Vin = 0.22384, Drift = 0.14251  
 Combination 208: Vin = 0.2457, Drift = 0.15642  
 Combination 209: Vin = 0.27358, Drift = 0.16051  
 Combination 210: Vin = 0.30894, Drift = 0.15246  
 Combination 211: Vin = 0.37679, Drift = 0.092918  
 Combination 212: Vin = 0.33161, Drift = 0.21045  
 Combination 213: Vin = 0.34518, Drift = 0.23514  
 Combination 214: Vin = 0.37813, Drift = 0.22882  
 Combination 215: Vin = 0.41128, Drift = 0.22155  
 Combination 216: Vin = 0.41302, Drift = 0.26297  
 Combination 217: Vin = 0.076261, Drift = 0.83537  
 Combination 218: Vin = 0.44557, Drift = 0.29791  
 Combination 219: Vin = 0.47099, Drift = 0.29984  
 Combination 220: Vin = 0.71915, Drift = -0.048942  
 Combination 221: Vin = 0.50905, Drift = 0.32121  
 Combination 222: Vin = 0.53191, Drift = 0.32451  
 Combination 223: Vin = 0.54657, Drift = 0.33973  
 Combination 224: Vin = 0.59964, Drift = 0.29359  
 Combination 225: Vin = 0.55166, Drift = 0.40511  
 Combination 226: Vin = 0.63319, Drift = 0.31227  
 Combination 227: Vin = 0.60029, Drift = 0.39797  
 Combination 228: Vin = 0.80397, Drift = 0.11091  
 Combination 229: Vin = 0.62658, Drift = 0.42126  
 Combination 230: Vin = 0.66122, Drift = 0.39727  
 Combination 231: Vin = 0.66794, Drift = 0.41563  
 Combination 232: Vin = 0.82632, Drift = 0.19527  
 Combination 233: Vin = 0.68993, Drift = 0.43597  
 Combination 234: Vin = 1.0504, Drift = -0.1074  
 Combination 235: Vin = 0.52106, Drift = 0.73509  
 Combination 236: Vin = 0.63721, Drift = 0.54469  
 Combination 237: Vin = 0.65002, Drift = 0.50657  
 Combination 238: Vin = 0.71465, Drift = 0.38571  
 Combination 239: Vin = -0.04608, Drift = 1.5623  
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 Combination 242: Vin = 0.64335, Drift = 0.43272  
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 Combination 244: Vin = 0.7107, Drift = 0.30352  
 Combination 245: Vin = 1.0181, Drift = -0.18882  
 Combination 246: Vin = 0.63535, Drift = 0.40448  
 Combination 247: Vin = -0.085592, Drift = 1.5305  
 Combination 248: Vin = 0.53081, Drift = 0.55743  
 Combination 249: Vin = 0.49608, Drift = 0.6087

Combination 250: Vin = 0.97895, Drift = -0.15154  
 Combination 251: Vin = 0.76569, Drift = 0.18327  
 Combination 252: Vin = 0.62883, Drift = 0.39963  
 Combination 253: Vin = 0.62985, Drift = 0.40097  
 Combination 254: Vin = 0.97524, Drift = -0.13708  
 Combination 255: Vin = 0.49591, Drift = 0.62192  
 Combination 256: Vin = 0.63859, Drift = 0.40539  
 Combination 257: Vin = 0.54968, Drift = 0.55418  
 Combination 258: Vin = 0.64545, Drift = 0.41439  
 Combination 259: Vin = 0.69196, Drift = 0.35348  
 Combination 260: Vin = 0.6565, Drift = 0.42276  
 Combination 261: Vin = 0.6674, Drift = 0.42058  
 Combination 262: Vin = 0.71838, Drift = 0.35774  
 Combination 263: Vin = 0.64369, Drift = 0.49319  
 Combination 264: Vin = 0.68234, Drift = 0.45175  
 Combination 265: Vin = 0.70344, Drift = 0.43737  
 Combination 266: Vin = 0.84426, Drift = 0.22724  
 Combination 267: Vin = 0.73363, Drift = 0.3937  
 Combination 268: Vin = 0.82796, Drift = 0.22399  
 Combination 269: Vin = 0.61309, Drift = 0.53535  
 Combination 270: Vin = 0.62206, Drift = 0.49281  
 Combination 271: Vin = 0.52271, Drift = 0.62012  
 Combination 272: Vin = 0.7886, Drift = 0.17212  
 Combination 273: Vin = 0.93393, Drift = -0.087841  
 Combination 274: Vin = 0.60985, Drift = 0.38833  
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 Combination 277: Vin = 0.56204, Drift = 0.35781  
 Combination 278: Vin = 0.53117, Drift = 0.36895  
 Combination 279: Vin = 0.52688, Drift = 0.33726  
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 Combination 281: Vin = 0.57644, Drift = 0.17962  
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 Combination 283: Vin = 0.44453, Drift = 0.30334  
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 Combination 285: Vin = 0.41359, Drift = 0.26511  
 Combination 286: Vin = 0.35601, Drift = 0.31096  
 Combination 287: Vin = 0.39029, Drift = 0.21182  
 Combination 288: Vin = 0.35271, Drift = 0.2249  
 Combination 289: Vin = 0.36162, Drift = 0.16432  
 Combination 290: Vin = 0.28714, Drift = 0.23414  
 Combination 291: Vin = 0.29004, Drift = 0.18189  
 Combination 292: Vin = 0.2668, Drift = 0.17021  
 Combination 293: Vin = 0.24332, Drift = 0.15846  
 Combination 294: Vin = 0.22271, Drift = 0.1418  
 Combination 295: Vin = 0.20035, Drift = 0.12755  
 Combination 296: Vin = 0.17968, Drift = 0.11034  
 Combination 297: Vin = 0.15523, Drift = 0.098823  
 Combination 298: Vin = 0.13064, Drift = 0.087322  
 Combination 299: Vin = 0.10975, Drift = 0.069867  
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 Combination 303: Vin = 0.018371, Drift = 0.011695  
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 Combination 313: Vin = -0.20421, Drift = -0.12999

Combination 314: Vin = -0.22546, Drift = -0.14342  
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 Combination 368: Vin = -0.68474, Drift = -0.2252  
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 Combination 379: Vin = -0.46227, Drift = -0.24075  
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 Combination 394: Vin = -0.15025, Drift = -0.095652  
 Combination 395: Vin = -0.12978, Drift = -0.081063  
 Combination 396: Vin = -0.10776, Drift = -0.068603  
 Combination 397: Vin = -0.086341, Drift = -0.054966  
 Combination 398: Vin = -0.064833, Drift = -0.041274  
 Combination 399: Vin = -0.043259, Drift = -0.027539  
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 Combination 401: Vin = 0, Drift = 0  
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 Combination 403: Vin = 0.043259, Drift = 0.027539  
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 Combination 405: Vin = 0.086341, Drift = 0.054966  
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 Combination 407: Vin = 0.12978, Drift = 0.081063  
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 Combination 410: Vin = 0.18996, Drift = 0.12573  
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 Combination 412: Vin = 0.23341, Drift = 0.1482  
 Combination 413: Vin = 0.24389, Drift = 0.17632  
 Combination 414: Vin = 0.27221, Drift = 0.17587  
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 Combination 416: Vin = 0.31241, Drift = 0.19889  
 Combination 417: Vin = 0.41189, Drift = 0.084674  
 Combination 418: Vin = 0.35017, Drift = 0.22293  
 Combination 419: Vin = 0.40704, Drift = 0.17411  
 Combination 420: Vin = 0.40394, Drift = 0.21866  
 Combination 421: Vin = 0.41265, Drift = 0.24382  
 Combination 422: Vin = 0.36714, Drift = 0.35321  
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 Combination 424: Vin = 0.63598, Drift = 0.0038632  
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 Combination 426: Vin = 0.4736, Drift = 0.32777  
 Combination 427: Vin = 0.50051, Drift = 0.31831  
 Combination 428: Vin = 0.52042, Drift = 0.3187  
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 Combination 434: Vin = 0.68474, Drift = 0.2252  
 Combination 435: Vin = 0.59965, Drift = 0.3818  
 Combination 436: Vin = 0.8541, Drift = 0.0036882  
 Combination 437: Vin = 0.37268, Drift = 0.78009  
 Combination 438: Vin = 0.76207, Drift = 0.18724  
 Combination 439: Vin = 0.47577, Drift = 0.65432  
 Combination 440: Vin = 0.6416, Drift = 0.40977  
 Combination 441: Vin = 0.67044, Drift = 0.37891

Combination 442: Vin = 0.74329, Drift = 0.27741  
 Combination 443: Vin = 0.66803, Drift = 0.40703  
 Combination 444: Vin = 0.63909, Drift = 0.46234  
 Combination 445: Vin = 0.85075, Drift = 0.13815  
 Combination 446: Vin = 0.68252, Drift = 0.41012  
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 Combination 450: Vin = 0.67756, Drift = 0.43061  
 Combination 451: Vin = 0.70442, Drift = 0.38773  
 Combination 452: Vin = 0.65473, Drift = 0.46357  
 Combination 453: Vin = 0.84715, Drift = 0.15756  
 Combination 454: Vin = 0.75343, Drift = 0.29946  
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 Combination 456: Vin = 0.86054, Drift = 0.11548  
 Combination 457: Vin = 0.6888, Drift = 0.37554  
 Combination 458: Vin = 0.67142, Drift = 0.39155  
 Combination 459: Vin = 0.72031, Drift = 0.3019  
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 Combination 462: Vin = 0.74754, Drift = 0.2115  
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 Combination 465: Vin = 0.76388, Drift = 0.12505  
 Combination 466: Vin = 0.91448, Drift = -0.13459  
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 Combination 469: Vin = 0.84719, Drift = -0.10632  
 Combination 470: Vin = 0.64535, Drift = 0.1823  
 Combination 471: Vin = 0.79545, Drift = -0.083188  
 Combination 472: Vin = 0.54976, Drift = 0.27177  
 Combination 473: Vin = 0.42133, Drift = 0.44133  
 Combination 474: Vin = 0.48472, Drift = 0.30839  
 Combination 475: Vin = 0.46936, Drift = 0.29799  
 Combination 476: Vin = 0.45284, Drift = 0.28829  
 Combination 477: Vin = 0.072454, Drift = 0.84906  
 Combination 478: Vin = 0.57374, Drift = 0.023838  
 Combination 479: Vin = 0.40149, Drift = 0.2556  
 Combination 480: Vin = 0.38938, Drift = 0.23481  
 Combination 481: Vin = 0.46898, Drift = 0.069064  
 Combination 482: Vin = 0.34903, Drift = 0.21584  
 Combination 483: Vin = 0.32689, Drift = 0.20811  
 Combination 484: Vin = 0.28424, Drift = 0.23178  
 Combination 485: Vin = 0.34052, Drift = 0.099272  
 Combination 486: Vin = 0.26697, Drift = 0.16996  
 Combination 487: Vin = 0.23445, Drift = 0.17549  
 Combination 488: Vin = 0.16898, Drift = 0.23214  
 Combination 489: Vin = 0.22377, Drift = 0.099264  
 Combination 490: Vin = 0.17783, Drift = 0.12406  
 Combination 491: Vin = 0.16058, Drift = 0.10328  
 Combination 492: Vin = 0.13915, Drift = 0.088584  
 Combination 493: Vin = 0.11705, Drift = 0.074516  
 Combination 494: Vin = 0.094781, Drift = 0.06034  
 Combination 495: Vin = 0.072363, Drift = 0.046068  
 Combination 496: Vin = 0.049817, Drift = 0.031714  
 Combination 497: Vin = 0.027165, Drift = 0.017294  
 Combination 498: Vin = 0.0044281, Drift = 0.002819  
 Combination 499: Vin = -0.018371, Drift = -0.011695  
 Combination 500: Vin = -0.041209, Drift = -0.026235  
 Combination 501: Vin = -0.064066, Drift = -0.040786  
 Combination 502: Vin = -0.086919, Drift = -0.055335  
 Combination 503: Vin = -0.10975, Drift = -0.069867  
 Combination 504: Vin = -0.13064, Drift = -0.087322  
 Combination 505: Vin = -0.15523, Drift = -0.098823

Combination 506: Vin = -0.17968, Drift = -0.11034  
 Combination 507: Vin = -0.20035, Drift = -0.12755  
 Combination 508: Vin = -0.22272, Drift = -0.14179  
 Combination 509: Vin = -0.25408, Drift = -0.14156  
 Combination 510: Vin = -0.26696, Drift = -0.16995  
 Combination 511: Vin = -0.28879, Drift = -0.18385  
 Combination 512: Vin = -0.31059, Drift = -0.19731  
 Combination 513: Vin = -0.33177, Drift = -0.21121  
 Combination 514: Vin = -0.44929, Drift = -0.073194  
 Combination 515: Vin = -0.37369, Drift = -0.2379  
 Combination 516: Vin = -0.34631, Drift = -0.32619  
 Combination 517: Vin = -0.41441, Drift = -0.26382  
 Combination 518: Vin = -0.42935, Drift = -0.28416  
 Combination 519: Vin = -0.47291, Drift = -0.25876  
 Combination 520: Vin = -0.47628, Drift = -0.29565  
 Combination 521: Vin = -0.71708, Drift = 0.041298  
 Combination 522: Vin = -0.51037, Drift = -0.32378  
 Combination 523: Vin = -0.79328, Drift = 0.081189  
 Combination 524: Vin = -0.83575, Drift = 0.10949  
 Combination 525: Vin = -0.38397, Drift = -0.63752  
 Combination 526: Vin = -0.5777, Drift = -0.36957  
 Combination 527: Vin = -0.92523, Drift = 0.14113  
 Combination 528: Vin = -0.60231, Drift = -0.40018  
 Combination 529: Vin = 0.089035, Drift = -1.519  
 Combination 530: Vin = -0.63713, Drift = -0.41004  
 Combination 531: Vin = -1.015, Drift = 0.15316  
 Combination 532: Vin = -0.74144, Drift = -0.30528  
 Combination 533: Vin = -0.50571, Drift = -0.70402  
 Combination 534: Vin = -0.82796, Drift = -0.22399  
 Combination 535: Vin = -0.73363, Drift = -0.3937  
 Combination 536: Vin = -0.84426, Drift = -0.22724  
 Combination 537: Vin = -0.70344, Drift = -0.43737  
 Combination 538: Vin = -0.68234, Drift = -0.45175  
 Combination 539: Vin = -1.0649, Drift = 0.16843  
 Combination 540: Vin = -0.67271, Drift = -0.42948  
 Combination 541: Vin = -0.6674, Drift = -0.42058  
 Combination 542: Vin = -0.53189, Drift = -0.6185  
 Combination 543: Vin = -0.86211, Drift = -0.086218  
 Combination 544: Vin = -0.72003, Drift = -0.29724  
 Combination 545: Vin = -0.62882, Drift = -0.42987  
 Combination 546: Vin = -0.67847, Drift = -0.34274  
 Combination 547: Vin = -0.49591, Drift = -0.62192  
 Combination 548: Vin = -0.97524, Drift = 0.13708  
 Combination 549: Vin = -0.62985, Drift = -0.40097  
 Combination 550: Vin = -0.62883, Drift = -0.39963  
 Combination 551: Vin = -0.76569, Drift = -0.18327  
 Combination 552: Vin = -0.97895, Drift = 0.15154  
 Combination 553: Vin = -0.49608, Drift = -0.6087  
 Combination 554: Vin = -0.52634, Drift = -0.56446  
 Combination 555: Vin = -0.6708, Drift = -0.34239  
 Combination 556: Vin = -0.94358, Drift = 0.079692  
 Combination 557: Vin = -0.68335, Drift = -0.33702  
 Combination 558: Vin = -0.64945, Drift = -0.39972  
 Combination 559: Vin = -0.32669, Drift = -0.91769  
 Combination 560: Vin = -0.53714, Drift = -0.59956  
 Combination 561: Vin = -0.55987, Drift = -0.57772  
 Combination 562: Vin = -0.72698, Drift = -0.33037  
 Combination 563: Vin = 0.028866, Drift = -1.5353  
 Combination 564: Vin = -1.0376, Drift = 0.12157  
 Combination 565: Vin = -0.65002, Drift = -0.50657  
 Combination 566: Vin = -0.63721, Drift = -0.54469  
 Combination 567: Vin = -0.52106, Drift = -0.73509  
 Combination 568: Vin = -1.0504, Drift = 0.1074  
 Combination 569: Vin = -0.84036, Drift = -0.19967



Combination 570: Vin = -0.82632, Drift = -0.19527  
 Combination 571: Vin = -0.65403, Drift = -0.43748  
 Combination 572: Vin = -0.66122, Drift = -0.39727  
 Combination 573: Vin = -0.49808, Drift = -0.6231  
 Combination 574: Vin = -0.45644, Drift = -0.65682  
 Combination 575: Vin = -0.2397, Drift = -0.96438  
 Combination 576: Vin = -0.6019, Drift = -0.36142  
 Combination 577: Vin = -0.57608, Drift = -0.36675  
 Combination 578: Vin = -0.55941, Drift = -0.35678  
 Combination 579: Vin = -0.54657, Drift = -0.33973  
 Combination 580: Vin = -0.77076, Drift = 0.050675  
 Combination 581: Vin = -0.40856, Drift = -0.47906  
 Combination 582: Vin = -0.44374, Drift = -0.38367  
 Combination 583: Vin = -0.4628, Drift = -0.31271  
 Combination 584: Vin = -0.047461, Drift = -0.92327  
 Combination 585: Vin = -0.076256, Drift = -0.83538  
 Combination 586: Vin = -0.56042, Drift = -0.031439  
 Combination 587: Vin = -0.41128, Drift = -0.22155  
 Combination 588: Vin = -0.37759, Drift = -0.22967  
 Combination 589: Vin = -0.35262, Drift = -0.22347  
 Combination 590: Vin = -0.3033, Drift = -0.25493  
 Combination 591: Vin = -0.37679, Drift = -0.092918  
 Combination 592: Vin = -0.28718, Drift = -0.18663  
 Combination 593: Vin = -0.27358, Drift = -0.16051  
 Combination 594: Vin = -0.24413, Drift = -0.15888  
 Combination 595: Vin = -0.22747, Drift = -0.1368  
 Combination 596: Vin = -0.20186, Drift = -0.12849  
 Combination 597: Vin = -0.17509, Drift = -0.12174  
 Combination 598: Vin = -0.15754, Drift = -0.10029  
 Combination 599: Vin = -0.13527, Drift = -0.086117  
 Combination 600: Vin = -0.11295, Drift = -0.071908  
 Combination 601: Vin = -0.090604, Drift = -0.05768  
 Combination 602: Vin = -0.068249, Drift = -0.043449  
 Combination 603: Vin = -0.045911, Drift = -0.029228  
 Combination 604: Vin = -0.023611, Drift = -0.015031  
 Combination 605: Vin = -0.0013719, Drift = -0.00087337  
 Combination 606: Vin = 0.020785, Drift = 0.013232  
 Combination 607: Vin = 0.042837, Drift = 0.027271  
 Combination 608: Vin = 0.064764, Drift = 0.04123  
 Combination 609: Vin = 0.086543, Drift = 0.055095  
 Combination 610: Vin = 0.10815, Drift = 0.068852  
 Combination 611: Vin = 0.12957, Drift = 0.082487  
 Combination 612: Vin = 0.15078, Drift = 0.095988  
 Combination 613: Vin = 0.16768, Drift = 0.11575  
 Combination 614: Vin = 0.20889, Drift = 0.09676  
 Combination 615: Vin = 0.21293, Drift = 0.13555  
 Combination 616: Vin = 0.23308, Drift = 0.14839  
 Combination 617: Vin = 0.17413, Drift = 0.28479  
 Combination 618: Vin = 0.25649, Drift = 0.19848  
 Combination 619: Vin = 0.29947, Drift = 0.17327  
 Combination 620: Vin = 0.28713, Drift = 0.23412  
 Combination 621: Vin = 0.16039, Drift = 0.47382  
 Combination 622: Vin = 0.35968, Drift = 0.20047  
 Combination 623: Vin = 0.46922, Drift = 0.067188  
 Combination 624: Vin = 0.38605, Drift = 0.23563  
 Combination 625: Vin = 0.41702, Drift = 0.22377  
 Combination 626: Vin = 0.4143, Drift = 0.26379  
 Combination 627: Vin = 0.59373, Drift = 0.016587  
 Combination 628: Vin = 0.47049, Drift = 0.24371  
 Combination 629: Vin = 0.48728, Drift = 0.24972  
 Combination 630: Vin = 0.68265, Drift = -0.025962  
 Combination 631: Vin = 0.49199, Drift = 0.30351  
 Combination 632: Vin = 0.41805, Drift = 0.44841  
 Combination 633: Vin = 0.53069, Drift = 0.29894

Combination 634: Vin = 0.52492, Drift = 0.33418  
 Combination 635: Vin = 0.53618, Drift = 0.34135  
 Combination 636: Vin = 0.54683, Drift = 0.34812  
 Combination 637: Vin = 0.55533, Drift = 0.3569  
 Combination 638: Vin = 0.56726, Drift = 0.35889  
 Combination 639: Vin = 0.55358, Drift = 0.39968  
 Combination 640: Vin = 0.70283, Drift = 0.18324  
 Combination 641: Vin = 0.91603, Drift = -0.13519  
 Combination 642: Vin = 0.71121, Drift = 0.20153  
 Combination 643: Vin = -0.13245, Drift = 1.5403  
 Combination 644: Vin = 0.377, Drift = 0.75208  
 Combination 645: Vin = 0.35133, Drift = 0.80293  
 Combination 646: Vin = 0.96395, Drift = -0.15035  
 Combination 647: Vin = -0.086265, Drift = 1.5068  
 Combination 648: Vin = 0.62334, Drift = 0.39816  
 Combination 649: Vin = 0.65708, Drift = 0.3496  
 Combination 650: Vin = 0.79366, Drift = 0.13797  
 Combination 651: Vin = 0.76569, Drift = 0.18327  
 Combination 652: Vin = 0.50462, Drift = 0.59319  
 Combination 653: Vin = 0.97982, Drift = -0.15496  
 Combination 654: Vin = 0.6524, Drift = 0.35611  
 Combination 655: Vin = 0.62282, Drift = 0.39779  
 Combination 656: Vin = 0.61811, Drift = 0.3989  
 Combination 657: Vin = 0.61592, Drift = 0.39452  
 Combination 658: Vin = 0.67847, Drift = 0.28694  
 Combination 659: Vin = 0.51029, Drift = 0.54028  
 Combination 660: Vin = 0.93728, Drift = -0.14276  
 Combination 661: Vin = 0.68587, Drift = 0.23836  
 Combination 662: Vin = 0.5714, Drift = 0.40289  
 Combination 663: Vin = 0.59472, Drift = 0.34955  
 Combination 664: Vin = -0.09431, Drift = 1.4137  
 Combination 665: Vin = 0.54719, Drift = 0.38648  
 Combination 666: Vin = 0.59285, Drift = 0.29381  
 Combination 667: Vin = 0.54349, Drift = 0.34904  
 Combination 668: Vin = 0.53415, Drift = 0.34005  
 Combination 669: Vin = 0.52978, Drift = 0.32194  
 Combination 670: Vin = 0.51113, Drift = 0.32495  
 Combination 671: Vin = 0.5045, Drift = 0.30781  
 Combination 672: Vin = 0.40844, Drift = 0.42989  
 Combination 673: Vin = 0.50096, Drift = 0.25455  
 Combination 674: Vin = 0.45791, Drift = 0.29097  
 Combination 675: Vin = 0.44529, Drift = 0.27843  
 Combination 676: Vin = 0.42342, Drift = 0.27932  
 Combination 677: Vin = 0.43291, Drift = 0.22986  
 Combination 678: Vin = 0.42211, Drift = 0.21121  
 Combination 679: Vin = 0.37754, Drift = 0.24459  
 Combination 680: Vin = 0.36104, Drift = 0.23291  
 Combination 681: Vin = 0.35769, Drift = 0.19962  
 Combination 682: Vin = 0.3271, Drift = 0.20824  
 Combination 683: Vin = 0.31013, Drift = 0.19459  
 Combination 684: Vin = 0.2982, Drift = 0.1722  
 Combination 685: Vin = 0.27122, Drift = 0.17267  
 Combination 686: Vin = 0.25709, Drift = 0.15223  
 Combination 687: Vin = 0.23631, Drift = 0.14153  
 Combination 688: Vin = 0.20469, Drift = 0.14722  
 Combination 689: Vin = 0.19819, Drift = 0.11283  
 Combination 690: Vin = 0.17165, Drift = 0.10937  
 Combination 691: Vin = 0.151, Drift = 0.096128  
 Combination 692: Vin = 0.1301, Drift = 0.082823  
 Combination 693: Vin = 0.109, Drift = 0.069394  
 Combination 694: Vin = 0.08774, Drift = 0.055857  
 Combination 695: Vin = 0.066327, Drift = 0.042225  
 Combination 696: Vin = 0.044786, Drift = 0.028512  
 Combination 697: Vin = 0.02314, Drift = 0.014731

Combination 698: Vin = 0.0014094, Drift = 0.00089722  
 Combination 699: Vin = -0.020383, Drift = -0.012976  
 Combination 700: Vin = -0.042216, Drift = -0.026875  
 Combination 701: Vin = -0.064066, Drift = -0.040786  
 Combination 702: Vin = -0.085913, Drift = -0.054694  
 Combination 703: Vin = -0.10773, Drift = -0.068585  
 Combination 704: Vin = -0.12951, Drift = -0.082446  
 Combination 705: Vin = -0.15121, Drift = -0.096261  
 Combination 706: Vin = -0.17281, Drift = -0.11003  
 Combination 707: Vin = -0.18843, Drift = -0.13295  
 Combination 708: Vin = -0.23871, Drift = -0.10112  
 Combination 709: Vin = -0.26722, Drift = -0.10316  
 Combination 710: Vin = -0.25779, Drift = -0.16439  
 Combination 711: Vin = -0.27936, Drift = -0.17647  
 Combination 712: Vin = -0.32122, Drift = -0.1562  
 Combination 713: Vin = -0.31971, Drift = -0.20353  
 Combination 714: Vin = -0.15585, Drift = -0.5053  
 Combination 715: Vin = -0.32812, Drift = -0.27845  
 Combination 716: Vin = -0.49621, Drift = -0.057492  
 Combination 717: Vin = -0.41689, Drift = -0.22446  
 Combination 718: Vin = -0.41346, Drift = -0.27148  
 Combination 719: Vin = -0.45012, Drift = -0.25471  
 Combination 720: Vin = -0.44726, Drift = -0.29919  
 Combination 721: Vin = -0.46287, Drift = -0.31377  
 Combination 722: Vin = -0.48882, Drift = -0.31119  
 Combination 723: Vin = -0.47995, Drift = -0.36235  
 Combination 724: Vin = -0.49164, Drift = -0.38023  
 Combination 725: Vin = -0.80986, Drift = 0.084429  
 Combination 726: Vin = -0.4519, Drift = -0.51197  
 Combination 727: Vin = 0.093615, Drift = -1.4019  
 Combination 728: Vin = -0.59428, Drift = -0.35327  
 Combination 729: Vin = -0.55954, Drift = -0.43856  
 Combination 730: Vin = -0.61805, Drift = -0.37618  
 Combination 731: Vin = -0.62303, Drift = -0.39664  
 Combination 732: Vin = -0.55486, Drift = -0.53074  
 Combination 733: Vin = -0.95592, Drift = 0.073547  
 Combination 734: Vin = -0.6639, Drift = -0.40941  
 Combination 735: Vin = -0.84716, Drift = -0.14414  
 Combination 736: Vin = -0.67482, Drift = -0.43728  
 Combination 737: Vin = -0.5731, Drift = -0.61721  
 Combination 738: Vin = -0.94644, Drift = -0.048618  
 Combination 739: Vin = -1.0602, Drift = 0.11686  
 Combination 740: Vin = -0.69015, Drift = -0.46952  
 Combination 741: Vin = -0.74098, Drift = -0.38608  
 Combination 742: Vin = -0.69694, Drift = -0.44659  
 Combination 743: Vin = -1.0735, Drift = 0.15496  
 Combination 744: Vin = -0.67043, Drift = -0.46861  
 Combination 745: Vin = -0.71063, Drift = -0.39706  
 Combination 746: Vin = -0.68785, Drift = -0.42585  
 Combination 747: Vin = -0.68035, Drift = -0.43216  
 Combination 748: Vin = -0.61365, Drift = -0.53295  
 Combination 749: Vin = -1.0455, Drift = 0.14786  
 Combination 750: Vin = -0.68188, Drift = -0.42248  
 Combination 751: Vin = -0.70442, Drift = -0.38773  
 Combination 752: Vin = -0.62034, Drift = -0.52204  
 Combination 753: Vin = -0.75952, Drift = -0.30718  
 Combination 754: Vin = -0.34479, Drift = -0.96394  
 Combination 755: Vin = -0.70854, Drift = -0.39939  
 Combination 756: Vin = -0.49279, Drift = -0.74654  
 Combination 757: Vin = -0.70229, Drift = -0.42694  
 Combination 758: Vin = -0.70494, Drift = -0.43288  
 Combination 759: Vin = -0.96181, Drift = -0.038404  
 Combination 760: Vin = -0.68696, Drift = -0.47452  
 Combination 761: Vin = -0.71437, Drift = -0.42728

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Combination 762: Vin = -0.74125, Drift = -0.37238
Combination 763: Vin = -0.68815, Drift = -0.43809
Combination 764: Vin = -0.67126, Drift = -0.44447
Combination 765: Vin = -0.69252, Drift = -0.38849
Combination 766: Vin = -0.65625, Drift = -0.42279
Combination 767: Vin = -0.53983, Drift = -0.58124
Combination 768: Vin = -0.64981, Drift = -0.38257
Combination 769: Vin = -0.81472, Drift = -0.096244
Combination 770: Vin = -0.50034, Drift = -0.56145
Combination 771: Vin = -0.55941, Drift = -0.43876
Combination 772: Vin = -0.54988, Drift = -0.42258
Combination 773: Vin = -0.46911, Drift = -0.51702
Combination 774: Vin = -0.55111, Drift = -0.35467
Combination 775: Vin = -0.79168, Drift = 0.057956
Combination 776: Vin = -0.77684, Drift = 0.070523
Combination 777: Vin = -0.42107, Drift = -0.45134
Combination 778: Vin = -0.40937, Drift = -0.43168
Combination 779: Vin = -0.38981, Drift = -0.42333
Combination 780: Vin = -0.45102, Drift = -0.28713
Combination 781: Vin = -0.49397, Drift = -0.17865
Combination 782: Vin = -0.36191, Drift = -0.34416
Combination 783: Vin = -0.38764, Drift = -0.26093
Combination 784: Vin = -0.1322, Drift = -0.61855
Combination 785: Vin = -0.45111, Drift = -0.073198
Combination 786: Vin = -0.3453, Drift = -0.19424
Combination 787: Vin = -0.31293, Drift = -0.19922
Combination 788: Vin = -0.31251, Drift = -0.15333
Combination 789: Vin = -0.27048, Drift = -0.1722
Combination 790: Vin = -0.26189, Drift = -0.13797
Combination 791: Vin = -0.22715, Drift = -0.14428
Combination 792: Vin = -0.19804, Drift = -0.14129
Combination 793: Vin = -0.18266, Drift = -0.11628
Combination 794: Vin = -0.16021, Drift = -0.10199
Combination 795: Vin = -0.14364, Drift = -0.078123
Combination 796: Vin = -0.11488, Drift = -0.073132
Combination 797: Vin = -0.092033, Drift = -0.05859
Combination 798: Vin = -0.069102, Drift = -0.043992
Combination 799: Vin = -0.046105, Drift = -0.029351
Combination 800: Vin = -0.023063, Drift = -0.014683
Combination 801: Vin = 0, Drift = 0

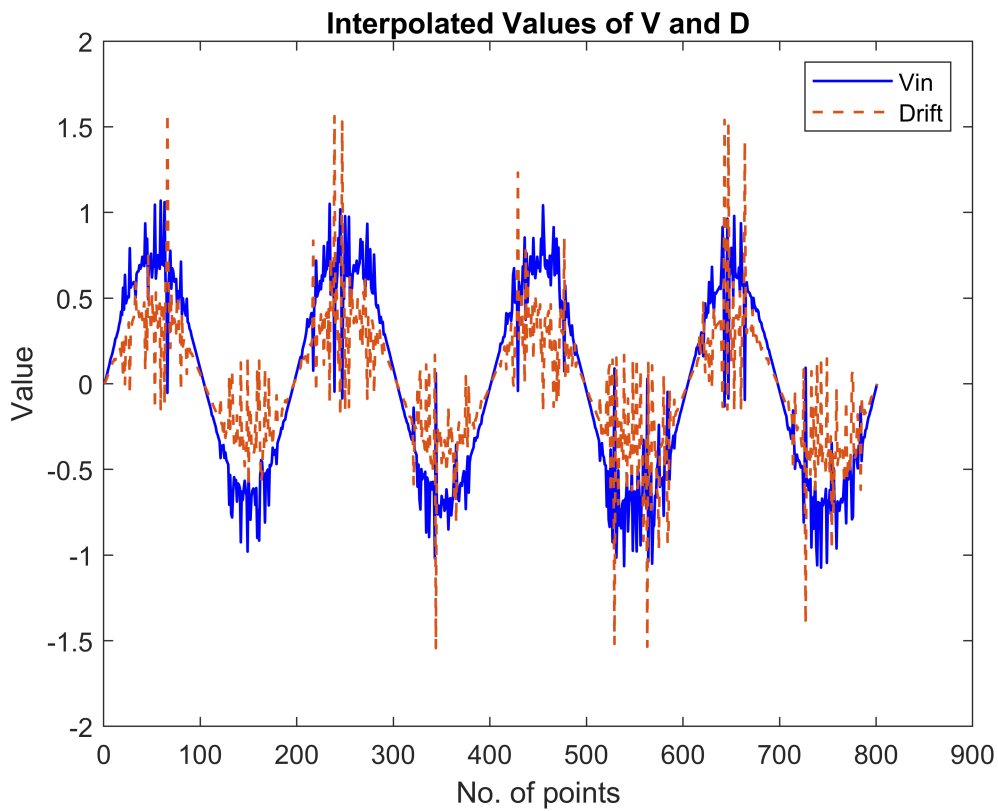
```

```

% 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 0.023063 0.046105 0.069102 0.092033 0.11488 0.14364 0.16021 0.17779 0.20493

```
disp(['Drift: ' num2str(D_interp)]);
```

Drift: 0 0.014683 0.029351 0.043992 0.05859 0.073132 0.078123 0.10199 0.12393 0.1304