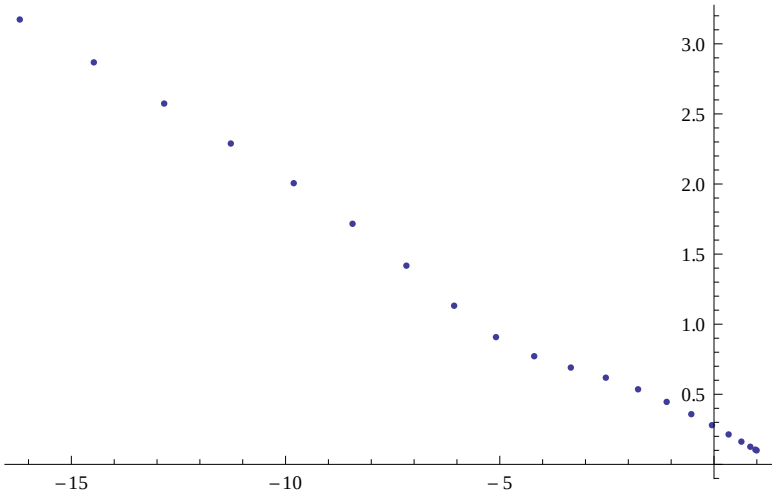
```
Exit[];

f[y_] := {-Sin[y[[2]] - b] * F / d, y[[1]], y[[4]],
  F * er[b] + d * y[[1]]^2 * er[y[[2]]] + Sin[y[[2]] - b] * F * ea[y[[2]]]}

er[alpha_] := {Cos[alpha], Sin[alpha]}; ea[alpha_] := {-Sin[alpha], Cos[alpha]};

Pos[y_] := y[[3]] + d * er[y[[2]]];

n = 3; h = 0.1; d = 1; b = Pi / 180 * (-190); F = 1; y = {0, 0.1, {0, 0}, {0, 0}};

P = Table[0, {21}]; P[[1]] = Pos[y];
For[i = 0, i < 20 * n, i++,

  y += h * f[y];
  P[[Floor[i / n] + 2]] = Pos[y];
 ];
ListPlot[P, AxesOrigin → {0, 0}, PlotRange → All]
```




```
P
```

```
{{0.544801, 0.841469}, {0.559293, 0.841457}, {0.58377, 0.841422}, {0.618222, 0.841356},
 {0.66264, 0.841249}, {0.717014, 0.841097}, {0.781331, 0.840898}, {0.855579, 0.840653},
 {0.939749, 0.840368}, {1.03383, 0.840055}, {1.13782, 0.839729}, {1.2517, 0.839406},
 {1.3755, 0.839109}, {1.50921, 0.838855}, {1.65285, 0.838666}, {1.80645, 0.838554},
 {1.97002, 0.838528}, {2.1436, 0.838593}, {2.32721, 0.838742}, {2.52087, 0.838965}}
```