

```

In[1]:= P[0] = {2, 0};
        P[1] = {4 / 3, 4 / 3};
        P[3] = {0, 2};
        P[6] = {-2, 0};
        P[8] = {-4 / 3, -4 / 3};
        P[9] = {0, -2};

        (* Punctele P1 s P8 au fost obtinute cu conditii Bessel *)

In[8]:= d[1] = 1 / 15 (-7 P[1] + 28 P[3] - 8 P[6] + 2 P[8]);
        d[2] = 1 / 15 (2 P[1] - 8 P[3] + 28 P[6] - 7 P[8]);

In[10]:= P[2] = 1 / 2 P[1] + 1 / 2 d[1];
        P[4] = 2 / 3 d[1] + 1 / 3 d[2];
        P[5] = 1 / 3 d[1] + 2 / 3 d[2];
        P[7] = 1 / 2 P[8] + 1 / 2 d[2];

In[14]:= b[k_] [t_] := Binomial[3, k] t^k (1 - t)^(3 - k)

In[25]:= Polig1 = Graphics[{Red, Line[Table[P[i], {i, 0, 3}]]}];
        Polig2 = Graphics[{Green, Line[Table[P[i], {i, 3, 6}]]}];
        Polig3 = Graphics[{Magenta, Line[Table[P[i], {i, 6, 9}]]}];

In[35]:= Bez1 = ParametricPlot[ $\sum_{k=0}^3 b[k][t] \times P[k]$ , {t, 0, 1}, PlotStyle -> Red];

        Bez2 = ParametricPlot[ $\sum_{k=0}^3 b[k][t] \times P[k + 3]$ , {t, 0, 1}, PlotStyle -> Green];

        Bez3 = ParametricPlot[ $\sum_{k=0}^3 b[k][t] \times P[k + 6]$ , {t, 0, 1}, PlotStyle -> Magenta];

In[50]:= L1 = ParametricPlot[(1 - t) P[2] + t d[1], {t, 0, 1}, PlotStyle -> {Dashed, Black}];
        L2 = ParametricPlot[(1 - t) P[4] + t d[1], {t, 0, 1}, PlotStyle -> {Dashed, Black}];
        D1 = Graphics[{Black, PointSize[Large], Point[d[1]]}];

In[58]:= L3 = ParametricPlot[(1 - t) P[5] + t d[2], {t, 0, 1}, PlotStyle -> {Dashed, Black}];
        L4 = ParametricPlot[(1 - t) P[7] + t d[2], {t, 0, 1}, PlotStyle -> {Dashed, Black}];
        D2 = Graphics[{Black, PointSize[Large], Point[d[2]]}];

```

```
In[61]:= Show[Polig1, Polig2, Polig3, Bez1, Bez2, Bez3, L1, L2, D1, L3, L4, D2]
```

Out[61]=

