MAJ3

In[901]:=
```
k = 2;
n = 2 k - 1;
Pdiff[p_] = 1 - p^k - (1 - p)^k;
Plot[Pdiff[p], {p, 0, 1}]


P1[p_] = Sum[Binomial[n, i] * p^i * (1 - p)^(n - i), {i, k, n}];
Plot[P1[p], {p, 0, 1}]
Palt[p_] = 1 - P1[p]^k - (1 - P1[p])^k;
pss[p_] = p * P1[p] + (1 - p) (1 - P1[p]);


A1[p_] = (2 + Pdiff[p]) (2 + Palt[p]);
A4[p_] =
   2 + Pdiff[p] + 1 + (pss[p] + P1[p] (1 - P1[p]) (1 - p) + (1 - P1[p]) P1[p] p) * (1 + Pdiff[p]) +
     ((1 - pss[p]) + P1[p] p (1 - p)^2 + (1 - P1[p]) (1 - p) p^2) * (2 + Pdiff[p]);
A3[p_] = 2 + Pdiff[p] + 1 + (1 - P1[p] (1 - p) + P1[p] (1 - P1[p]) (1 - p)) * (1 + Pdiff[p]) +
     (P1[p] (1 - p) + P1[p] p (1 - p)^2 + (1 - P1[p]) p (1 - (1 - p)^2) + (1 - P1[p]) (1 - p) p^2) *
       (2 + Pdiff[p]);
A2[p_] = A3[1 - p];


A2new[p_] = 2 + Pdiff[p] + 1 +
     (1 - P1[p]) (1 - p) (1 + p + p^2 (2 + Pdiff[p])) +
     (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
     P1[p] (1 - p) (1 + p + (1 - p^2) (2 + Pdiff[p])) +
     P1[p] p (1 + (1 - p) + (1 - p)^2 (2 + Pdiff[p]));
Expand[A2new[p]]
A2hs[p_] = 4 p^0 + 4 p^1 + 7 p^2 + 6 p^3 + -54 p^4 + 12 p^5 + 75 p^6 + -66 p^7 + 16 p^8 + 0 p^9


A3new[p_] = 2 + Pdiff[p] + 1 +
     (1 - P1[p]) (1 - p) (1 + p + p^2 (2 + Pdiff[p])) +
     (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p)^2) (2 + Pdiff[p])) +
     P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
     P1[p] p (1 + (1 - p) + (1 - p)^2 (2 + Pdiff[p]));
Expand[A3new[p]]
Expand[A2new[1 - p]]
A3hs[p_] = 4 p^0 + 4 p^1 + 8 p^2 + 4 p^3 + -59 p^4 + 28 p^5 + 61 p^6 + -62 p^7 + 16 p^8 + 0 p^9


A4new[p_] = 2 + Pdiff[p] + 1 +
     (1 - P1[p]) (1 - p) (1 + p + p^2 (2 + Pdiff[p])) +
     (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
     P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
     P1[p] p (1 + (1 - p) + (1 - p)^2 (2 + Pdiff[p]));
```

```
Expand[A4new[p]]
A4hs[p_] = 4 p ^ 0 + 4 p ^ 1 + 7 p ^ 2 + 6 p ^ 3 + -57 p ^ 4 + 20 p ^ 5 + 68 p ^ 6 + -64 p ^ 7 + 16 p ^ 8 + 0 p ^ 9
A4hs[1 / 2]
Plot[{A1[p], A2new[p], A3new[p], A4new[p]}, {p, 0, 1}]
Maximize[{A1[p], 0 < p < 1}, p]
Maximize[{A2new[p], 0 < p < 1}, p]
Maximize[{A3new[p], 0 < p < 1}, p]
Maximize[{A4new[p], 0 < p < 1}, p]

Atest[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest[p]]

Atest2[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (1 + p + p ^ 2 (2 + Pdiff[p])) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest2[p]]

Atest3[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest3[p]]

Atest4[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest4[p]]

Atest5[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (1 + (1 - p) + (1 - p) ^ 2 (2 + Pdiff[p]));
Expand[Atest5[p]]
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Atest6[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (1 + (1 - p) + (1 - p) ^ 2 (2 + Pdiff[p]));
Expand[Atest6[p]]


Atest7[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (1 + (1 - p) + (1 - p) ^ 2 (2 + Pdiff[p]));
Expand[Atest7[p]]


Atest8[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest8[p]]


Atest9[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (1 + p + p ^ 2 (2 + Pdiff[p])) +
    (1 - P1[p]) p (2 + Pdiff[p] + P1[p] (1 + (1 - p))) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest9[p]]


Atest10[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (1 + p + p ^ 2 (2 + Pdiff[p])) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (2 + Pdiff[p] + (1 - P1[p]) (1 + p)) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest10[p]]


Atest11[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (2 + Pdiff[p] + P1[p] (1 + p)) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (1 + (1 - p) + (1 - p) ^ 2 (2 + Pdiff[p]));
Expand[Atest11[p]]
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Atest12[p_] = 2 + Pdiff[p] + 1 +
    (1 - P1[p]) (1 - p) (1 + p + p ^ 2 (2 + Pdiff[p])) +
    (1 - P1[p]) p (1 + (1 - p) + (1 - (1 - p) ^ 2) (2 + Pdiff[p])) +
    P1[p] (1 - p) (1 + p + (1 - p ^ 2) (2 + Pdiff[p])) +
    P1[p] p (2 + Pdiff[p] + (1 - P1[p]) (1 + (1 - p)));
Expand[Atest12[p]]

b = {A1[p], A2new[p], A3new[p], A4new[p], Atest[p], Atest2[p], Atest3[p], Atest4[p], Atest5[p],
    Atest6[p], Atest7[p], Atest8[p], Atest9[p], Atest10[p], Atest11[p], Atest12[p]};
Plot[{A1[p], A2new[p], A3new[p], A4new[p], Atest[p], Atest2[p], Atest3[p], Atest4[p],
  Atest5[p], Atest6[p], Atest7[p], Atest8[p], Atest9[p], Atest10[p], Atest11[p], Atest12[p]},
 {p, 0, 1}, PlotStyle → ColorData["Rainbow"] /@ (Range[0, Length@b] / Length@b),
 PlotLegends → "Expressions"]

c = Subtract[{A1[p], A2new[p], A3new[p], A4new[p], Atest[p],
     Atest2[p], Atest3[p], Atest4[p], Atest5[p], Atest6[p], Atest7[p],
     Atest8[p], Atest9[p], Atest10[p], Atest11[p], Atest12[p]}, A4hs[p]];
Plot[c, {p, 0, 1}, PlotStyle → ColorData["Rainbow"] /@ (Range[0, Length@c] / Length@c),
 PlotLabel → "All algorithms subtracted by the minimal one"]

NSolve[Atest2[p] == A4hs[p] && p < 1 && p > 0]
NSolve[Atest10[p] == A4hs[p] && p < 1 && p > 0]
NSolve[A3hs[p] == A4hs[p] && p < 1 && p > 0]

Expand[A1[p]]
A1[1 / 2]
Expand[A2[p]]
Expand[A3[p]]
Expand[A4[p]]
A4[1 / 2]
d = {A1[p], A2[p], A3[p], A4[p], A2hs[p], A4hs[p], Atest[p], Atest2[p]};
Plot[{A1[p], A2[p], A3[p], A4[p], A2hs[p], A4hs[p], Atest[p], Atest2[p]}, {p, 0, 1},
 PlotStyle → ColorData["Rainbow"] /@ (Range[0, Length@d] / Length@d),
 PlotLegends → "Expressions"]
e = {A1[p] - A4[p], A2[p] - A4[p], A3[p] - A4[p], A4[p] - A4[p],
    A2hs[p] - A4[p], A3hs[p] - A4[p], A4hs[p] - A4[p], Atest2[p] - A4[p]};
Plot[{A1[p] - A4[p], A2[p] - A4[p], A3[p] - A4[p], A4[p] - A4[p],
  A2hs[p] - A4[p], A3hs[p] - A4[p], A4hs[p] - A4[p], Atest2[p] - A4[p]}, {p, 0, 1},
 PlotStyle → ColorData["Rainbow"] /@ (Range[0, Length@e] / Length@e),
 PlotLegends → "Expressions"]
Expand[A1[1 - eps]]
Expand[A2[1 - eps]]
Expand[A3[1 - eps]]
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Expand[A4[1 – eps]]

intersect1 = NSolve[A3[p] == A4[p] && p < 1 && p > 0]
A4'[p /. intersect1]
A3'[p /. intersect1]
intersect2 = NSolve[A2[p] == A4[p] && p < 1 && p > 0]
A4'[p /. intersect2]
A2'[p /. intersect2]

intersect3 = NSolve[A2[p] == A1[p] && p ≤ 1 && p > 0]
Expand[A1[eps]]
Expand[A3[eps]]

Plot[Min[A3[p], A2[p], A4[p]], {p, 0, 1}]
```
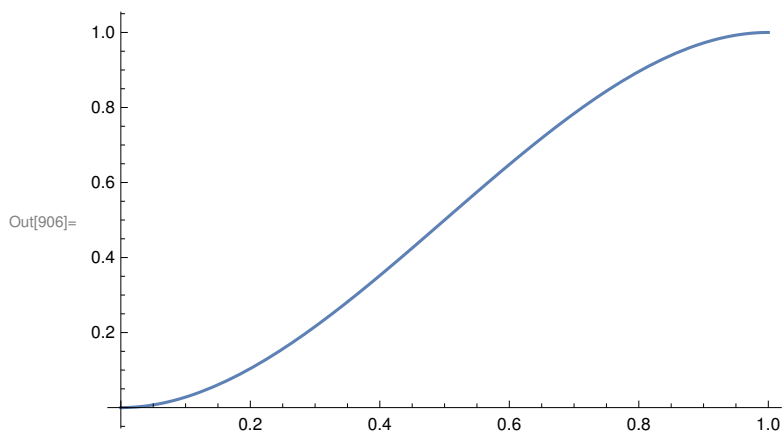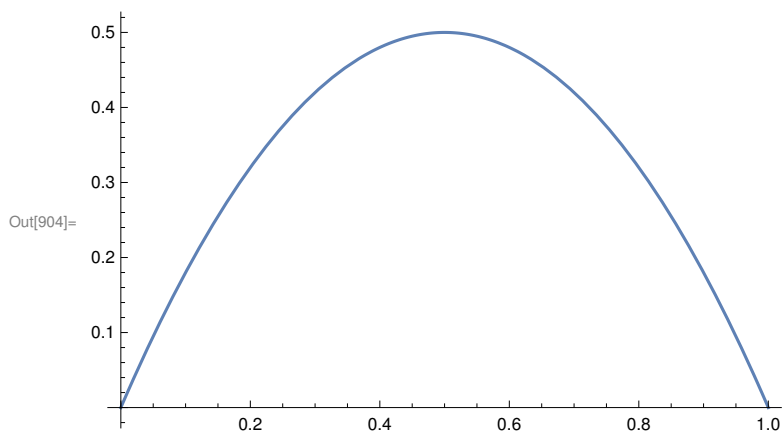
Out[904]=

Out[906]=

Out[914]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 54\,p^4 + 12\,p^5 + 75\,p^6 - 66\,p^7 + 16\,p^8$

Out[915]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 54\,p^4 + 12\,p^5 + 75\,p^6 - 66\,p^7 + 16\,p^8$

Out[917]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 59\,p^4 + 28\,p^5 + 61\,p^6 - 62\,p^7 + 16\,p^8$

Out[918]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 59\,p^4 + 28\,p^5 + 61\,p^6 - 62\,p^7 + 16\,p^8$

Out[919]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 59\,p^4 + 28\,p^5 + 61\,p^6 - 62\,p^7 + 16\,p^8$

Out[921]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 57\,p^4 + 20\,p^5 + 68\,p^6 - 64\,p^7 + 16\,p^8$

Out[922]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 57\,p^4 + 20\,p^5 + 68\,p^6 - 64\,p^7 + 16\,p^8$

Out[923]= $\dfrac{99}{16}$

Out[924]=

Out[925]= $\left\{ \dfrac{25}{4}, \left\{ p \to \dfrac{1}{2} \right\} \right\}$

Out[926]= $\left\{ 4 + 4\,\boxed{0.503\ldots} + 7\,\boxed{0.503\ldots}^2 + 6\,\boxed{0.503\ldots}^3 - 54\,\boxed{0.503\ldots}^4 + \right.$
$\left. 12\,\boxed{0.503\ldots}^5 + 75\,\boxed{0.503\ldots}^6 - 66\,\boxed{0.503\ldots}^7 + 16\,\boxed{0.503\ldots}^8, \left\{ p \to \boxed{0.503\ldots} \right\} \right\}$

Out[927]= $\left\{ 4 + 4\,\boxed{0.497\ldots} + 8\,\boxed{0.497\ldots}^2 + 4\,\boxed{0.497\ldots}^3 - 59\,\boxed{0.497\ldots}^4 + \right.$
$\left. 28\,\boxed{0.497\ldots}^5 + 61\,\boxed{0.497\ldots}^6 - 62\,\boxed{0.497\ldots}^7 + 16\,\boxed{0.497\ldots}^8, \left\{ p \to \boxed{0.497\ldots} \right\} \right\}$

Out[928]= $\left\{ \dfrac{99}{16}, \left\{ p \to \dfrac{1}{2} \right\} \right\}$

Out[930]= $5 + 4\,p + 2\,p^2 + 8\,p^3 - 38\,p^4 - 4\,p^5 + 76\,p^6 - 64\,p^7 + 16\,p^8$

Out[932]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 45\,p^4 + 79\,p^6 - 66\,p^7 + 16\,p^8$

Out[934]= $5 + 4\,p + 3\,p^2 + 6\,p^3 - 40\,p^4 + 4\,p^5 + 69\,p^6 - 62\,p^7 + 16\,p^8$

Out[936]= $5 + 4\,p + 2\,p^2 + 8\,p^3 - 35\,p^4 - 12\,p^5 + 83\,p^6 - 66\,p^7 + 16\,p^8$

Out[938]= $5 + 4\,p + 2\,p^2 + 8\,p^3 - 50\,p^4 + 16\,p^5 + 65\,p^6 - 62\,p^7 + 16\,p^8$

Out[940]= $5 + 4\,p + 2\,p^2 + 8\,p^3 - 47\,p^4 + 8\,p^5 + 72\,p^6 - 64\,p^7 + 16\,p^8$

Out[942]= $5 + 4\,p + 3\,p^2 + 6\,p^3 - 52\,p^4 + 24\,p^5 + 58\,p^6 - 60\,p^7 + 16\,p^8$

Out[944]= $5 + 4\,p + 3\,p^2 + 6\,p^3 - 37\,p^4 - 4\,p^5 + 76\,p^6 - 64\,p^7 + 16\,p^8$

Out[946]= $4 + 4\,p + 7\,p^2 + 6\,p^3 - 42\,p^4 - 8\,p^5 + 86\,p^6 - 68\,p^7 + 16\,p^8$

Out[948]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 47\,p^4 + 8\,p^5 + 72\,p^6 - 64\,p^7 + 16\,p^8$

Out[950]= $5 + 4\,p + 3\,p^2 + 6\,p^3 - 49\,p^4 + 16\,p^5 + 65\,p^6 - 62\,p^7 + 16\,p^8$

Out[952]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 44\,p^4 + 79\,p^6 - 66\,p^7 + 16\,p^8$
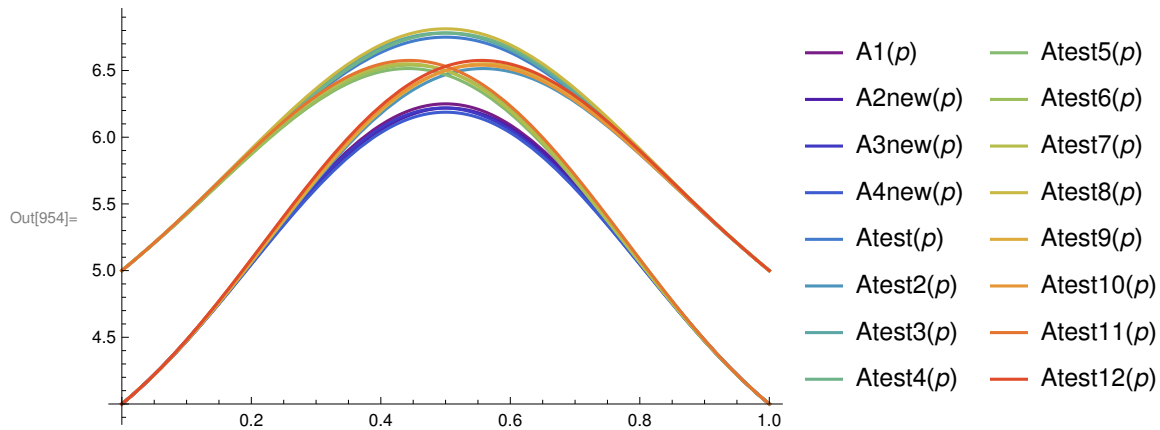
Out[954]=

Out[956]=

All algorithms subtracted by the minimal one
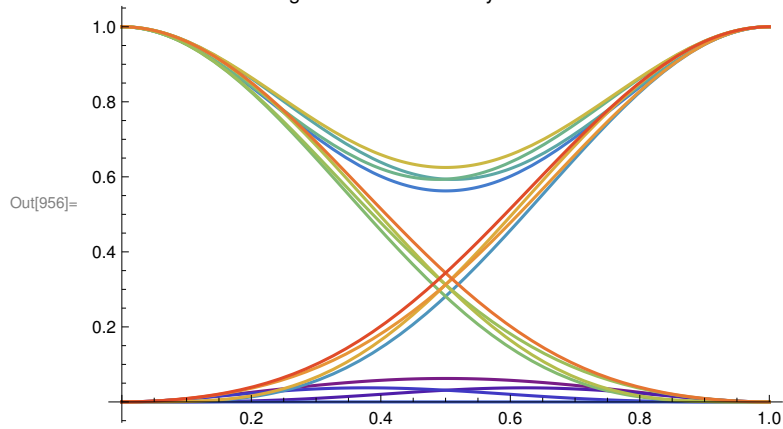
Out[957]= {}

Out[958]= {}

Out[959]= {}

Out[960]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 56\,p^4 + 20\,p^5 + 68\,p^6 - 64\,p^7 + 16\,p^8$

Out[961]= $\dfrac{25}{4}$

Out[962]= $4 + 5\,p + 4\,p^2 + 2\,p^3 - 32\,p^4 - 3\,p^5 + 44\,p^6 - 8\,p^7 - 20\,p^8 + 8\,p^9$

Out[963]= $4 + 4\,p + 8\,p^2 + 4\,p^3 - 59\,p^4 + 19\,p^5 + 100\,p^6 - 120\,p^7 + 52\,p^8 - 8\,p^9$

Out[964]= $4 + 5\,p + 4\,p^2 + 2\,p^3 - 35\,p^4 - 4\,p^5 + 76\,p^6 - 64\,p^7 + 16\,p^8$

Out[965]= $\dfrac{99}{16}$

Out[967]=

- A1(p)
- A2(p)
- A3(p)
- A4(p)
- A2hs(p)
- A4hs(p)
- Atest(p)
- Atest2(p)

Out[969]=

- A1(p) − A4(p)
- A2(p) − A4(p)
- A3(p) − A4(p)
- A4(p) − A4(p)
- A2hs(p) − A4(p)
- A3hs(p) − A4(p)
- A4hs(p) − A4(p)
- Atest2(p) − A4(p)
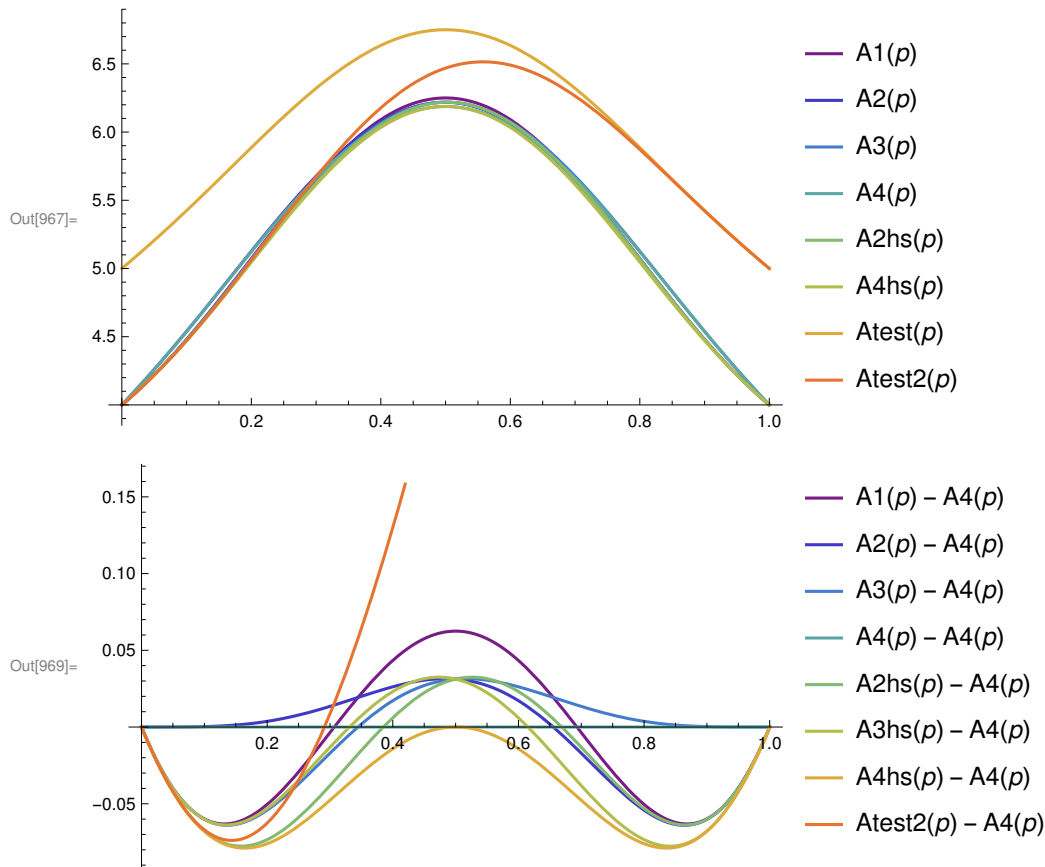
Out[970]= $4 + 4\,\text{eps} + 8\,\text{eps}^2 + 4\,\text{eps}^3 - 56\,\text{eps}^4 + 20\,\text{eps}^5 + 68\,\text{eps}^6 - 64\,\text{eps}^7 + 16\,\text{eps}^8$

Out[971]= $4 + 4\,\text{eps} + 8\,\text{eps}^2 + 4\,\text{eps}^3 - 59\,\text{eps}^4 + 19\,\text{eps}^5 + 100\,\text{eps}^6 - 120\,\text{eps}^7 + 52\,\text{eps}^8 - 8\,\text{eps}^9$

Out[972]= $4 + 5\,\text{eps} + 4\,\text{eps}^2 + 2\,\text{eps}^3 - 32\,\text{eps}^4 - 3\,\text{eps}^5 + 44\,\text{eps}^6 - 8\,\text{eps}^7 - 20\,\text{eps}^8 + 8\,\text{eps}^9$

Out[973]= $4 + 5\,\text{eps} + 4\,\text{eps}^2 + 2\,\text{eps}^3 - 35\,\text{eps}^4 - 4\,\text{eps}^5 + 76\,\text{eps}^6 - 64\,\text{eps}^7 + 16\,\text{eps}^8$

Out[974]= {{p → 0.344446}}

Out[975]= {4.001}

Out[976]= {4.35897}

Out[977]= {{p → 0.655554}}

Out[978]= {−4.001}

Out[979]= {−4.35897}

Out[980]= {{p → 0.344446}, {p → 1.}, {p → 1.}, {p → 1.}, {p → 1.}}

Out[981]= $4 + 4\,\text{eps} + 8\,\text{eps}^2 + 4\,\text{eps}^3 - 56\,\text{eps}^4 + 20\,\text{eps}^5 + 68\,\text{eps}^6 - 64\,\text{eps}^7 + 16\,\text{eps}^8$
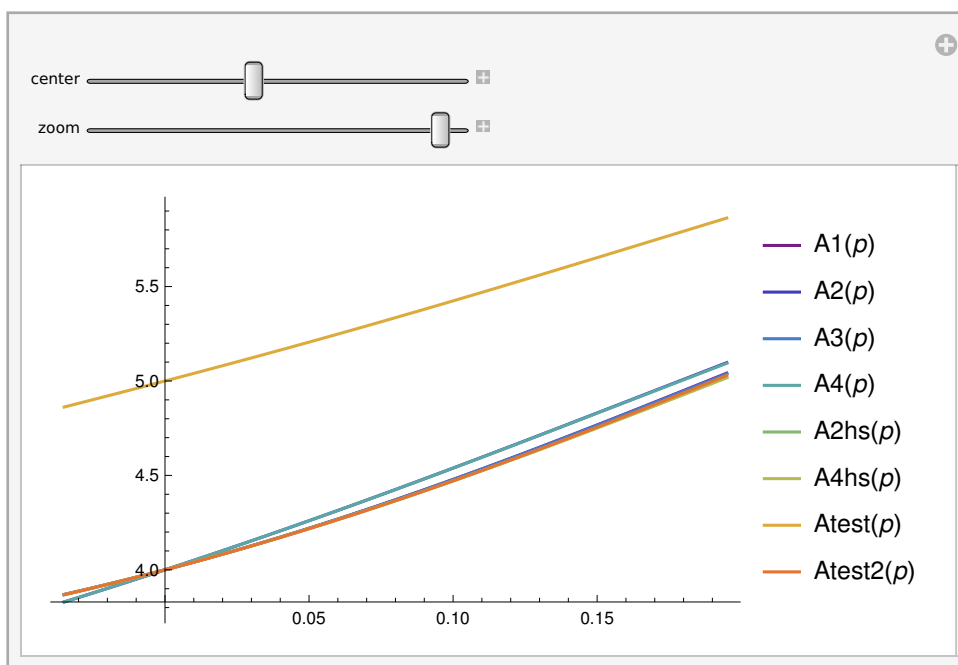
Out[982]= $4 + 4\,\text{eps} + 8\,\text{eps}^2 + 4\,\text{eps}^3 - 59\,\text{eps}^4 + 19\,\text{eps}^5 + 100\,\text{eps}^6 - 120\,\text{eps}^7 + 52\,\text{eps}^8 - 8\,\text{eps}^9$

Out[983]=
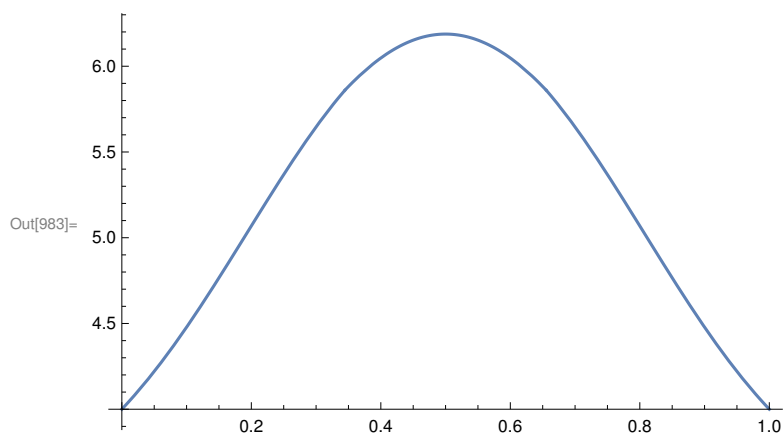
In[•]:= ▶ **interactive plot** %716

Out[•]=

••• **Power**: Infinite expression $\dfrac{1}{0}$ encountered.

••• **Infinity**: Indeterminate expression 0 ComplexInfinity encountered.

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••• **Infinity**: Indeterminate expression 0 ComplexInfinity encountered.

••• **Power**: Infinite expression $\dfrac{1}{0}$ encountered.

••• **General**: Further output of Power::infy will be suppressed during this calculation.

••• **Infinity**: Indeterminate expression 0 ComplexInfinity encountered.

··· General: Further output of Infinity::indet will be suppressed during this calculation.

··· Power: Infinite expression $\frac{1}{0}$ encountered.

··· Infinity: Indeterminate expression 0 ComplexInfinity encountered.

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··· General: Further output of Infinity::indet will be suppressed during this calculation.

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··· Power: Infinite expression $\frac{1}{0}$ encountered.

··· General: Further output of Power::infy will be suppressed during this calculation.

··· Infinity: Indeterminate expression 0 ComplexInfinity encountered.

··· General: Further output of Infinity::indet will be suppressed during this calculation.

··· Power: Infinite expression $\frac{1}{0}$ encountered.

··· Infinity: Indeterminate expression 0 ComplexInfinity encountered.

··· Power: Infinite expression $\frac{1}{0}$ encountered.

··· Infinity: Indeterminate expression 0 ComplexInfinity encountered.

··· Power: Infinite expression $\frac{1}{0}$ encountered.

··· General: Further output of Power::infy will be suppressed during this calculation.

··· Infinity: Indeterminate expression 0 ComplexInfinity encountered.

··· General: Further output of Infinity::indet will be suppressed during this calculation.