Hietarinta example 1 (ISSAC 92)

`hieta-1`

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Variables: a ; c ; j ; l ; m ; n ; p ; v ; g ; h

Equations:

$c^2p - ac + cl + a - p - h;$
$ach + c^2 + cn + mh;$
$-a^2c + acl + acg - clh + a^2 + 2c^2 - am - ah + lh - 2;$
$-ac^2 + acj - c^2m + acn + c^2v - cnh - cm + nh;$
$-clg - al - j - 1;$
$-cng - cl - cm + jm + cg + ch;$
$-cjl - aj + jl - an + cg + a - v + g;$
$-cjn + cj - cn + jn;$
$cmp - lnp + al + lm + ap - lp + c - n - 2;$
$-n^2p + cl + cm + 2mn + cp - ch + m;$
$-lmh + ac + 2cm - ln + mn - cg - a + p + h;$
$-clm - cm^2 + amn - m^2n + cmv - mnh + c^2 - cj - n^2 + n;$
$a^2l - al^2 + cnp - lmg - cl - an + 2a - l + m - v + g;$
$acl - cl^2 + amn - lmn - mng + clh - m^2 + cn - n^2 + mv + 2c;$
$-jlm - lnv + clg + al + cn + n^2 + j + 1;$
$cjl - cln - jmn + an^2 - mn^2 + cnv - n^2v + nv;$
$-jlp + cmp + nph - al - am + ag - pg + ah + c - j + n - 1;$
$-jnp + lmh - cl + jm + cg + nh;$
$l^2h - lh^2 + ac - cl - jl + cm + jm - ng + ch + nh - a - l - g + h;$
$ajm - jm^2 + cmv - cmg - cmh + lnh + nvh - nh^2 + c^2 - cn - 2jn;$
$jnp - lgh - jl - ng - m + h;$
$jl^2 - jlv - ang + ng^2 - jlh + 2jn + lg + mg - vg + j - 1;$
$jln - jmn - cng + jng - jnh + jm;$
$-a^2p + alp + m^2p - lpv + 3a + 2m - v;$
$-acp + clp - npv + nph - am + lm + mv - mh + 2c + 2n;$
$-acp + npg + l^2 - am - lm + m^2 + lp - lv + mv - mg - lh - ph + c + n;$
$-c^2p + jnp - 2cm - jm + ln - mn - nh;$
$mnp + npv - al - lm - ap - lv - lg - pg;$
$lmh - cl - cp - ng + nh - m;$
$l^2v - lv^2 + lmg - jl - an - ln + mn - jp + 2nv + ng - v;$
$jlm + lnv - cn - n^2;$

$-acp + cph + jph - pg - ah - gh + 2c + j - 1;$
$-a^2h + mgh + ah^2 - 2ac + aj - cm - jp + cv - cg + ch + h;$
$-c^2p + lgh + ac - cl - jg + jh - a + m - 2g;$
$-ach + jvh + ngh - c^2 - j^2 - cn - mh - j;$
$j^2p - cp - cg - 2jg + l - g - h;$
$-ajg + jmg - cvg + cg^2 + jgh + j^2 - ah - lh + h^2 - 2c - j;$
$-ajg + jlg + jg^2 - cj + j^2 - vg + g^2 + gh + n - 1;$
$-aj^2 - cjv + j^2v + j^2g + jng - jv + jh - nh;$
$-amp + apg - lpg + mph - l + 2m - 2g + h;$
$-jlp - npv + cpg + jph - am - m^2 + mv + mg + ah + lh + mh - h^2 + c + n;$
$-cmp - mnp + jpg + pg - c + j - n + 1;$
$j^2p - lmh - jl - cm - 2mn + jv - nv + ng + ch;$
$-lnp + jpv + nph - al + l^2 - mp + ag - lg - mg - vg + g^2 - lh - j - 1;$
$-l^2h + lh^2 - cl - jl - ln - mn + jv - nv + cg + jg + jh + nh - m + h;$
$-n^2p + lgh - jm + jv - nv + 2jg + nh - l + g;$
$-jlv - jmv + jv^2 - nv^2 + nvg + jlh - lnh + nvh + 2j^2 - 2n^2;$
$a^2p - pg^2 - aph + pvh - 3a + v - 2g;$
$acp + cmp - jpv - jpg + ah + mh + vh + gh;$
$clp - jmp - cph + ap + ag + mg - vg - g^2 + lh + vh + gh - h^2 - j - 1;$
$cnp + v^2h - mgh - vh^2 + aj - jm + cv - 2jv - jg + jh + nh;$
$-jlp + jpv + ap + ag + lg - vg - ph - gh - 2j - 2;$
$-lgh - jl + jm + cp + cg + h;$
$-jnp + jl + jg + ng - jh + p + 2g;$
$-jvh - ngh + j^2 + j;$
$m^2p - pv^2 - aph + pvh - a + 2m + 3v;$
$lmp - mpv + pvg - pgh + l + 2m - 2g - h;$
$mnp + jpv - cph - jph - mh - vh - c - 2j + n;$
$alp - lpv + pv^2 - pg^2 + a - 3v - 2g;$
$clp + mnp - jpg - lv + mv - vg - ph + vh + c - j + n - 1;$
$lnp - npv - jpg + lp + lv + lg - j + 2n + 1;$
$-j^2p + n^2p + jl - jv + nv - nh;$

Communicated by M. Moeller

References

[1] D. Bini and B. Mourrain. Polynomials test suite. 1996.