the 0 equation set is:

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_1 + x^4\_5 + k^3\_1= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

y^4\_5 + y^4\_8 + x^5\_10 + k^4\_5= 0

[y^4\_7] + [y^4\_10] + x^5\_8 + k^4\_7= 0

y^5\_0 + x^6\_4 + k^5\_0= 0

y^5\_0 + y^5\_10 + x^6\_12 + k^5\_0= 0

[y^5\_1] + [y^5\_11] + x^6\_13 + k^5\_1= 0

[y^5\_2] + y^5\_8 + [y^5\_15] + x^6\_2 + k^5\_2= 0

[y^5\_3] + y^5\_9 + [y^5\_12] + x^6\_3 + k^5\_3= 0

[y^6\_0] + [y^6\_10] + y^6\_13 + x^7\_0 + k^6\_0= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_1 + y^6\_11 + x^7\_13 + k^6\_1= 0

y^6\_2 + [y^6\_8] + [y^6\_15] + x^7\_2 + k^6\_2= 0

y^6\_3 + y^6\_9 + y^6\_12 + x^7\_3 + k^6\_3= 0

y^6\_4 + y^6\_11 + x^7\_9 + k^6\_4= 0

[y^6\_6] + y^6\_9 + [x^7\_11] + k^6\_6= 0

y^7\_0 + y^7\_10 + y^7\_13 + x^8\_0 + k^7\_0= 0

y^7\_0 + x^8\_4 + k^7\_0= 0

y^7\_0 + y^7\_10 + x^8\_12 + k^7\_0= 0

[y^7\_1] + x^8\_5 + k^7\_1= 0

y^7\_2 + y^7\_8 + x^8\_14 + k^7\_2= 0

y^7\_3 + y^7\_9 + x^8\_15 + k^7\_3= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^8\_0 + y^8\_10 + x^9\_12 + k^8\_0= 0

y^8\_1 + y^8\_11 + y^8\_14 + x^9\_1 + k^8\_1= 0

y^8\_1 + x^9\_5 + k^8\_1= 0

y^8\_2 + y^8\_8 + y^8\_15 + x^9\_2 + k^8\_2= 0

y^8\_2 + x^9\_6 + k^8\_2= 0

y^8\_3 + y^8\_9 + y^8\_12 + x^9\_3 + k^8\_3= 0

y^8\_3 + y^8\_9 + x^9\_15 + k^8\_3= 0

y^8\_4 + y^8\_11 + x^9\_9 + k^8\_4= 0

y^8\_5 + y^8\_8 + x^9\_10 + k^8\_5= 0

[y^9\_0] + x^10\_4 + k^9\_0= 0

[y^9\_0] + y^9\_10 + x^10\_12 + k^9\_0= 0

y^9\_1 + x^10\_5 + k^9\_1= 0

y^9\_2 + y^9\_8 + y^9\_15 + x^10\_2 + k^9\_2= 0

y^9\_3 + y^9\_9 + y^9\_12 + x^10\_3 + k^9\_3= 0

y^9\_3 + x^10\_7 + k^9\_3= 0

y^9\_3 + y^9\_9 + x^10\_15 + k^9\_3= 0

y^9\_5 + y^9\_8 + x^10\_10 + k^9\_5= 0

y^9\_6 + y^9\_9 + x^10\_11 + k^9\_6= 0

y^10\_2 + y^10\_8 + y^10\_15 + x^11\_2 + k^10\_2= 0

y^10\_3 + y^10\_9 + y^10\_12 + x^11\_3 + k^10\_3= 0

y^10\_3 + x^11\_7 + k^10\_3= 0

y^10\_3 + y^10\_9 + x^11\_15 + k^10\_3= 0

y^10\_4 + y^10\_11 + x^11\_9 + k^10\_4= 0

y^10\_5 + y^10\_8 + x^11\_10 + k^10\_5= 0

y^10\_7 + y^10\_10 + x^11\_8 + k^10\_7= 0

y^11\_2 + y^11\_8 + y^11\_15 + x^12\_2 + k^11\_2= 0

y^11\_3 + y^11\_9 + x^12\_15 + k^11\_3= 0

y^11\_7 + y^11\_10 + x^12\_8 + k^11\_7= 0

y^12\_2 + y^12\_8 + y^12\_15 + x^13\_2 + k^12\_2= 0

y^13\_2 + x^14\_6 + k^13\_2= 0

y^14\_6 + [y^14\_9] + [x^15\_11] + k^14\_6= 0

S(x^1\_7) + y^1\_7= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_12) + y^2\_12= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_14) + y^3\_14= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_5) + y^4\_5= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_8) + y^5\_8= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_10) + y^5\_10= 0

S(x^6\_2) + y^6\_2= 0

S(x^6\_3) + y^6\_3= 0

S(x^6\_4) + y^6\_4= 0

S(x^6\_12) + y^6\_12= 0

S(x^6\_13) + y^6\_13= 0

S(x^7\_0) + y^7\_0= 0

S(x^7\_2) + y^7\_2= 0

S(x^7\_3) + y^7\_3= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_9) + y^7\_9= 0

S(x^7\_13) + y^7\_13= 0

S(x^8\_0) + y^8\_0= 0

S(x^8\_4) + y^8\_4= 0

S(x^8\_5) + y^8\_5= 0

S(x^8\_10) + y^8\_10= 0

S(x^8\_12) + y^8\_12= 0

S(x^8\_14) + y^8\_14= 0

S(x^8\_15) + y^8\_15= 0

S(x^9\_1) + y^9\_1= 0

S(x^9\_2) + y^9\_2= 0

S(x^9\_3) + y^9\_3= 0

S(x^9\_5) + y^9\_5= 0

S(x^9\_6) + y^9\_6= 0

S(x^9\_9) + y^9\_9= 0

S(x^9\_10) + y^9\_10= 0

S(x^9\_12) + y^9\_12= 0

S(x^9\_15) + y^9\_15= 0

S(x^10\_2) + y^10\_2= 0

S(x^10\_3) + y^10\_3= 0

S(x^10\_4) + y^10\_4= 0

S(x^10\_5) + y^10\_5= 0

S(x^10\_7) + y^10\_7= 0

S(x^10\_10) + y^10\_10= 0

S(x^10\_11) + y^10\_11= 0

S(x^10\_12) + y^10\_12= 0

S(x^10\_15) + y^10\_15= 0

S(x^11\_2) + y^11\_2= 0

S(x^11\_3) + y^11\_3= 0

S(x^11\_7) + y^11\_7= 0

S(x^11\_8) + y^11\_8= 0

S(x^11\_9) + y^11\_9= 0

S(x^11\_10) + y^11\_10= 0

S(x^11\_15) + y^11\_15= 0

S(x^12\_2) + y^12\_2= 0

S(x^12\_8) + y^12\_8= 0

S(x^12\_15) + y^12\_15= 0

S(x^13\_2) + y^13\_2= 0

S(x^14\_6) + y^14\_6= 0

the 1 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + x^3\_15 + k^2\_3= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_1 + x^4\_5 + k^3\_1= 0

y^3\_2 + y^3\_8 + y^3\_15 + x^4\_2 + k^3\_2= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

[y^4\_0] + [y^4\_10] + [y^4\_13] + x^5\_0 + k^4\_0= 0

y^4\_2 + y^4\_8 + x^5\_14 + k^4\_2= 0

y^4\_5 + y^4\_8 + x^5\_10 + k^4\_5= 0

y^5\_0 + y^5\_10 + x^6\_12 + k^5\_0= 0

[y^5\_1] + [y^5\_11] + y^5\_14 + x^6\_1 + k^5\_1= 0

[y^5\_1] + [y^5\_11] + x^6\_13 + k^5\_1= 0

[y^6\_0] + [y^6\_10] + y^6\_13 + x^7\_0 + k^6\_0= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_2 + [y^6\_8] + [y^6\_15] + x^7\_2 + k^6\_2= 0

y^6\_2 + x^7\_6 + k^6\_2= 0

y^6\_3 + y^6\_9 + y^6\_12 + x^7\_3 + k^6\_3= 0

y^6\_3 + x^7\_7 + k^6\_3= 0

[y^6\_5] + [y^6\_8] + x^7\_10 + k^6\_5= 0

[y^6\_6] + y^6\_9 + [x^7\_11] + k^6\_6= 0

[y^6\_7] + [y^6\_10] + x^7\_8 + k^6\_7= 0

y^7\_0 + x^8\_4 + k^7\_0= 0

[y^7\_1] + x^8\_5 + k^7\_1= 0

y^7\_2 + x^8\_6 + k^7\_2= 0

y^7\_3 + y^7\_9 + x^8\_15 + k^7\_3= 0

[y^7\_4] + [y^7\_11] + x^8\_9 + k^7\_4= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^7\_6 + y^7\_9 + x^8\_11 + k^7\_6= 0

y^7\_7 + y^7\_10 + x^8\_8 + k^7\_7= 0

y^8\_0 + x^9\_4 + k^8\_0= 0

y^8\_0 + y^8\_10 + x^9\_12 + k^8\_0= 0

y^8\_2 + y^8\_8 + y^8\_15 + x^9\_2 + k^8\_2= 0

y^8\_2 + y^8\_8 + x^9\_14 + k^8\_2= 0

y^8\_4 + y^8\_11 + x^9\_9 + k^8\_4= 0

y^8\_5 + y^8\_8 + x^9\_10 + k^8\_5= 0

y^8\_6 + y^8\_9 + x^9\_11 + k^8\_6= 0

[y^9\_0] + x^10\_4 + k^9\_0= 0

[y^9\_0] + y^9\_10 + x^10\_12 + k^9\_0= 0

y^9\_1 + y^9\_11 + y^9\_14 + x^10\_1 + k^9\_1= 0

y^9\_1 + y^9\_11 + x^10\_13 + k^9\_1= 0

y^9\_2 + x^10\_6 + k^9\_2= 0

y^9\_3 + y^9\_9 + y^9\_12 + x^10\_3 + k^9\_3= 0

y^9\_3 + x^10\_7 + k^9\_3= 0

y^9\_4 + y^9\_11 + x^10\_9 + k^9\_4= 0

y^10\_0 + y^10\_10 + y^10\_13 + x^11\_0 + k^10\_0= 0

y^10\_0 + x^11\_4 + k^10\_0= 0

y^10\_1 + y^10\_11 + x^11\_13 + k^10\_1= 0

y^10\_3 + y^10\_9 + y^10\_12 + x^11\_3 + k^10\_3= 0

y^10\_3 + x^11\_7 + k^10\_3= 0

y^10\_3 + y^10\_9 + x^11\_15 + k^10\_3= 0

y^10\_4 + y^10\_11 + x^11\_9 + k^10\_4= 0

y^10\_6 + y^10\_9 + x^11\_11 + k^10\_6= 0

y^10\_7 + y^10\_10 + x^11\_8 + k^10\_7= 0

y^11\_0 + y^11\_10 + y^11\_13 + x^12\_0 + k^11\_0= 0

y^11\_2 + y^11\_8 + y^11\_15 + x^12\_2 + k^11\_2= 0

y^11\_2 + x^12\_6 + k^11\_2= 0

y^11\_3 + y^11\_9 + x^12\_15 + k^11\_3= 0

y^11\_4 + y^11\_11 + x^12\_9 + k^11\_4= 0

y^11\_7 + y^11\_10 + x^12\_8 + k^11\_7= 0

y^12\_0 + x^13\_4 + k^12\_0= 0

y^12\_2 + y^12\_8 + y^12\_15 + x^13\_2 + k^12\_2= 0

y^12\_6 + y^12\_9 + x^13\_11 + k^12\_6= 0

y^13\_2 + x^14\_6 + k^13\_2= 0

y^13\_4 + y^13\_11 + [x^14\_9] + k^13\_4= 0

y^14\_6 + [y^14\_9] + [x^15\_11] + k^14\_6= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_14) + y^3\_14= 0

S(x^3\_15) + y^3\_15= 0

S(x^4\_2) + y^4\_2= 0

S(x^4\_5) + y^4\_5= 0

S(x^5\_0) + y^5\_0= 0

S(x^5\_10) + y^5\_10= 0

S(x^5\_14) + y^5\_14= 0

S(x^6\_1) + y^6\_1= 0

S(x^6\_12) + y^6\_12= 0

S(x^6\_13) + y^6\_13= 0

S(x^7\_0) + y^7\_0= 0

S(x^7\_2) + y^7\_2= 0

S(x^7\_3) + y^7\_3= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_6) + y^7\_6= 0

S(x^7\_7) + y^7\_7= 0

S(x^7\_8) + y^7\_8= 0

S(x^7\_10) + y^7\_10= 0

S(x^8\_4) + y^8\_4= 0

S(x^8\_5) + y^8\_5= 0

S(x^8\_6) + y^8\_6= 0

S(x^8\_8) + y^8\_8= 0

S(x^8\_9) + y^8\_9= 0

S(x^8\_10) + y^8\_10= 0

S(x^8\_11) + y^8\_11= 0

S(x^8\_15) + y^8\_15= 0

S(x^9\_2) + y^9\_2= 0

S(x^9\_4) + y^9\_4= 0

S(x^9\_9) + y^9\_9= 0

S(x^9\_10) + y^9\_10= 0

S(x^9\_11) + y^9\_11= 0

S(x^9\_12) + y^9\_12= 0

S(x^9\_14) + y^9\_14= 0

S(x^10\_1) + y^10\_1= 0

S(x^10\_3) + y^10\_3= 0

S(x^10\_4) + y^10\_4= 0

S(x^10\_6) + y^10\_6= 0

S(x^10\_7) + y^10\_7= 0

S(x^10\_9) + y^10\_9= 0

S(x^10\_12) + y^10\_12= 0

S(x^10\_13) + y^10\_13= 0

S(x^11\_0) + y^11\_0= 0

S(x^11\_3) + y^11\_3= 0

S(x^11\_4) + y^11\_4= 0

S(x^11\_7) + y^11\_7= 0

S(x^11\_8) + y^11\_8= 0

S(x^11\_9) + y^11\_9= 0

S(x^11\_11) + y^11\_11= 0

S(x^11\_13) + y^11\_13= 0

S(x^11\_15) + y^11\_15= 0

S(x^12\_0) + y^12\_0= 0

S(x^12\_2) + y^12\_2= 0

S(x^12\_6) + y^12\_6= 0

S(x^12\_8) + y^12\_8= 0

S(x^12\_9) + y^12\_9= 0

S(x^12\_15) + y^12\_15= 0

S(x^13\_2) + y^13\_2= 0

S(x^13\_4) + y^13\_4= 0

S(x^13\_11) + y^13\_11= 0

S(x^14\_6) + y^14\_6= 0

the 2 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_3 + y^2\_9 + x^3\_15 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_2 + y^3\_8 + y^3\_15 + x^4\_2 + k^3\_2= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_2 + y^4\_8 + x^5\_14 + k^4\_2= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_1] + [y^5\_11] + y^5\_14 + x^6\_1 + k^5\_1= 0

[y^5\_3] + y^5\_9 + [y^5\_12] + x^6\_3 + k^5\_3= 0

[y^6\_0] + [y^6\_10] + x^7\_12 + k^6\_0= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_3 + y^6\_9 + x^7\_15 + k^6\_3= 0

[y^6\_6] + y^6\_9 + [x^7\_11] + k^6\_6= 0

[y^7\_1] + [y^7\_11] + [y^7\_14] + x^8\_1 + k^7\_1= 0

[y^7\_1] + x^8\_5 + k^7\_1= 0

y^7\_2 + y^7\_8 + y^7\_15 + x^8\_2 + k^7\_2= 0

y^7\_2 + x^8\_6 + k^7\_2= 0

y^7\_3 + y^7\_9 + y^7\_12 + x^8\_3 + k^7\_3= 0

y^7\_3 + y^7\_9 + x^8\_15 + k^7\_3= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^8\_0 + y^8\_10 + [y^8\_13] + [x^9\_0] + k^8\_0= 0

y^8\_0 + x^9\_4 + k^8\_0= 0

y^8\_1 + x^9\_5 + k^8\_1= 0

y^8\_2 + y^8\_8 + y^8\_15 + x^9\_2 + k^8\_2= 0

y^8\_3 + y^8\_9 + x^9\_15 + k^8\_3= 0

y^8\_5 + y^8\_8 + x^9\_10 + k^8\_5= 0

y^8\_6 + y^8\_9 + x^9\_11 + k^8\_6= 0

[y^9\_0] + y^9\_10 + x^10\_12 + k^9\_0= 0

y^9\_2 + y^9\_8 + y^9\_15 + x^10\_2 + k^9\_2= 0

y^9\_4 + y^9\_11 + x^10\_9 + k^9\_4= 0

y^9\_5 + y^9\_8 + x^10\_10 + k^9\_5= 0

y^10\_0 + x^11\_4 + k^10\_0= 0

y^10\_0 + y^10\_10 + x^11\_12 + k^10\_0= 0

y^10\_2 + x^11\_6 + k^10\_2= 0

y^10\_3 + y^10\_9 + y^10\_12 + x^11\_3 + k^10\_3= 0

y^10\_3 + x^11\_7 + k^10\_3= 0

y^11\_0 + x^12\_4 + k^11\_0= 0

y^11\_0 + y^11\_10 + x^12\_12 + k^11\_0= 0

y^11\_1 + x^12\_5 + k^11\_1= 0

y^11\_1 + y^11\_11 + x^12\_13 + k^11\_1= 0

y^11\_3 + y^11\_9 + y^11\_12 + x^12\_3 + k^11\_3= 0

y^11\_4 + y^11\_11 + x^12\_9 + k^11\_4= 0

y^11\_6 + y^11\_9 + x^12\_11 + k^11\_6= 0

y^11\_7 + y^11\_10 + x^12\_8 + k^11\_7= 0

y^12\_0 + y^12\_10 + y^12\_13 + x^13\_0 + k^12\_0= 0

y^12\_0 + y^12\_10 + x^13\_12 + k^12\_0= 0

y^12\_3 + y^12\_9 + y^12\_12 + x^13\_3 + k^12\_3= 0

y^12\_4 + y^12\_11 + x^13\_9 + k^12\_4= 0

y^12\_5 + y^12\_8 + x^13\_10 + k^12\_5= 0

y^13\_0 + y^13\_10 + x^14\_12 + k^13\_0= 0

y^13\_3 + y^13\_9 + y^13\_12 + x^14\_3 + k^13\_3= 0

y^14\_3 + [y^14\_9] + y^14\_12 + [x^15\_3] + k^14\_3= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_12) + y^2\_12= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_15) + y^3\_15= 0

S(x^4\_2) + y^4\_2= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_14) + y^5\_14= 0

S(x^6\_1) + y^6\_1= 0

S(x^6\_3) + y^6\_3= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_12) + y^7\_12= 0

S(x^7\_15) + y^7\_15= 0

S(x^8\_1) + y^8\_1= 0

S(x^8\_2) + y^8\_2= 0

S(x^8\_3) + y^8\_3= 0

S(x^8\_5) + y^8\_5= 0

S(x^8\_6) + y^8\_6= 0

S(x^8\_10) + y^8\_10= 0

S(x^8\_15) + y^8\_15= 0

S(x^9\_2) + y^9\_2= 0

S(x^9\_4) + y^9\_4= 0

S(x^9\_5) + y^9\_5= 0

S(x^9\_10) + y^9\_10= 0

S(x^9\_11) + y^9\_11= 0

S(x^9\_15) + y^9\_15= 0

S(x^10\_2) + y^10\_2= 0

S(x^10\_9) + y^10\_9= 0

S(x^10\_10) + y^10\_10= 0

S(x^10\_12) + y^10\_12= 0

S(x^11\_3) + y^11\_3= 0

S(x^11\_4) + y^11\_4= 0

S(x^11\_6) + y^11\_6= 0

S(x^11\_7) + y^11\_7= 0

S(x^11\_12) + y^11\_12= 0

S(x^12\_3) + y^12\_3= 0

S(x^12\_4) + y^12\_4= 0

S(x^12\_5) + y^12\_5= 0

S(x^12\_8) + y^12\_8= 0

S(x^12\_9) + y^12\_9= 0

S(x^12\_11) + y^12\_11= 0

S(x^12\_12) + y^12\_12= 0

S(x^12\_13) + y^12\_13= 0

S(x^13\_0) + y^13\_0= 0

S(x^13\_3) + y^13\_3= 0

S(x^13\_9) + y^13\_9= 0

S(x^13\_10) + y^13\_10= 0

S(x^13\_12) + y^13\_12= 0

S(x^14\_3) + y^14\_3= 0

S(x^14\_12) + y^14\_12= 0

the 3 equation set is:

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_1 + x^4\_5 + k^3\_1= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

y^4\_5 + y^4\_8 + x^5\_10 + k^4\_5= 0

[y^4\_7] + [y^4\_10] + x^5\_8 + k^4\_7= 0

y^5\_0 + x^6\_4 + k^5\_0= 0

y^5\_0 + y^5\_10 + x^6\_12 + k^5\_0= 0

[y^5\_1] + [y^5\_11] + x^6\_13 + k^5\_1= 0

[y^5\_2] + y^5\_8 + [y^5\_15] + x^6\_2 + k^5\_2= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

[y^6\_0] + [y^6\_10] + y^6\_13 + x^7\_0 + k^6\_0= 0

[y^6\_0] + [y^6\_10] + x^7\_12 + k^6\_0= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_1 + y^6\_11 + x^7\_13 + k^6\_1= 0

y^6\_2 + [y^6\_8] + [y^6\_15] + x^7\_2 + k^6\_2= 0

y^6\_3 + y^6\_9 + y^6\_12 + x^7\_3 + k^6\_3= 0

y^6\_3 + y^6\_9 + x^7\_15 + k^6\_3= 0

y^6\_4 + y^6\_11 + x^7\_9 + k^6\_4= 0

[y^6\_5] + [y^6\_8] + x^7\_10 + k^6\_5= 0

[y^6\_7] + [y^6\_10] + x^7\_8 + k^6\_7= 0

y^7\_0 + y^7\_10 + y^7\_13 + x^8\_0 + k^7\_0= 0

[y^7\_1] + [y^7\_11] + [y^7\_14] + x^8\_1 + k^7\_1= 0

y^7\_2 + y^7\_8 + y^7\_15 + x^8\_2 + k^7\_2= 0

y^7\_2 + x^8\_6 + k^7\_2= 0

y^7\_2 + y^7\_8 + x^8\_14 + k^7\_2= 0

y^7\_3 + y^7\_9 + y^7\_12 + x^8\_3 + k^7\_3= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^8\_0 + y^8\_10 + x^9\_12 + k^8\_0= 0

y^8\_1 + y^8\_11 + y^8\_14 + x^9\_1 + k^8\_1= 0

y^8\_1 + x^9\_5 + k^8\_1= 0

y^8\_1 + y^8\_11 + x^9\_13 + k^8\_1= 0

y^8\_2 + x^9\_6 + k^8\_2= 0

y^8\_3 + y^8\_9 + x^9\_15 + k^8\_3= 0

y^8\_6 + y^8\_9 + x^9\_11 + k^8\_6= 0

[y^9\_0] + y^9\_10 + y^9\_13 + x^10\_0 + k^9\_0= 0

[y^9\_0] + y^9\_10 + x^10\_12 + k^9\_0= 0

y^9\_1 + y^9\_11 + x^10\_13 + k^9\_1= 0

y^9\_2 + y^9\_8 + y^9\_15 + x^10\_2 + k^9\_2= 0

y^9\_2 + x^10\_6 + k^9\_2= 0

y^9\_3 + y^9\_9 + y^9\_12 + x^10\_3 + k^9\_3= 0

y^9\_3 + x^10\_7 + k^9\_3= 0

y^9\_5 + y^9\_8 + x^10\_10 + k^9\_5= 0

y^9\_6 + y^9\_9 + x^10\_11 + k^9\_6= 0

y^10\_0 + y^10\_10 + y^10\_13 + x^11\_0 + k^10\_0= 0

y^10\_0 + x^11\_4 + k^10\_0= 0

y^10\_0 + y^10\_10 + x^11\_12 + k^10\_0= 0

y^10\_1 + x^11\_5 + k^10\_1= 0

y^10\_1 + y^10\_11 + x^11\_13 + k^10\_1= 0

y^10\_2 + x^11\_6 + k^10\_2= 0

y^10\_3 + y^10\_9 + y^10\_12 + x^11\_3 + k^10\_3= 0

y^10\_6 + y^10\_9 + x^11\_11 + k^10\_6= 0

y^10\_7 + y^10\_10 + x^11\_8 + k^10\_7= 0

y^11\_0 + y^11\_10 + y^11\_13 + x^12\_0 + k^11\_0= 0

y^11\_0 + x^12\_4 + k^11\_0= 0

y^11\_0 + y^11\_10 + x^12\_12 + k^11\_0= 0

y^11\_3 + y^11\_9 + y^11\_12 + x^12\_3 + k^11\_3= 0

y^11\_4 + y^11\_11 + x^12\_9 + k^11\_4= 0

y^11\_5 + y^11\_8 + x^12\_10 + k^11\_5= 0

y^11\_6 + y^11\_9 + x^12\_11 + k^11\_6= 0

y^12\_0 + y^12\_10 + x^13\_12 + k^12\_0= 0

y^12\_3 + y^12\_9 + y^12\_12 + x^13\_3 + k^12\_3= 0

y^12\_4 + y^12\_11 + x^13\_9 + k^12\_4= 0

y^13\_3 + y^13\_9 + y^13\_12 + x^14\_3 + k^13\_3= 0

y^14\_3 + [y^14\_9] + [x^15\_15] + k^14\_3= 0

S(x^1\_7) + y^1\_7= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_12) + y^2\_12= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_14) + y^3\_14= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_5) + y^4\_5= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_8) + y^5\_8= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_10) + y^5\_10= 0

S(x^6\_2) + y^6\_2= 0

S(x^6\_4) + y^6\_4= 0

S(x^6\_12) + y^6\_12= 0

S(x^6\_13) + y^6\_13= 0

S(x^7\_0) + y^7\_0= 0

S(x^7\_2) + y^7\_2= 0

S(x^7\_3) + y^7\_3= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_8) + y^7\_8= 0

S(x^7\_9) + y^7\_9= 0

S(x^7\_10) + y^7\_10= 0

S(x^7\_12) + y^7\_12= 0

S(x^7\_13) + y^7\_13= 0

S(x^7\_15) + y^7\_15= 0

S(x^8\_0) + y^8\_0= 0

S(x^8\_1) + y^8\_1= 0

S(x^8\_2) + y^8\_2= 0

S(x^8\_3) + y^8\_3= 0

S(x^8\_6) + y^8\_6= 0

S(x^8\_10) + y^8\_10= 0

S(x^8\_14) + y^8\_14= 0

S(x^9\_1) + y^9\_1= 0

S(x^9\_5) + y^9\_5= 0

S(x^9\_6) + y^9\_6= 0

S(x^9\_11) + y^9\_11= 0

S(x^9\_12) + y^9\_12= 0

S(x^9\_13) + y^9\_13= 0

S(x^9\_15) + y^9\_15= 0

S(x^10\_0) + y^10\_0= 0

S(x^10\_2) + y^10\_2= 0

S(x^10\_3) + y^10\_3= 0

S(x^10\_6) + y^10\_6= 0

S(x^10\_7) + y^10\_7= 0

S(x^10\_10) + y^10\_10= 0

S(x^10\_11) + y^10\_11= 0

S(x^10\_12) + y^10\_12= 0

S(x^10\_13) + y^10\_13= 0

S(x^11\_0) + y^11\_0= 0

S(x^11\_3) + y^11\_3= 0

S(x^11\_4) + y^11\_4= 0

S(x^11\_5) + y^11\_5= 0

S(x^11\_6) + y^11\_6= 0

S(x^11\_8) + y^11\_8= 0

S(x^11\_11) + y^11\_11= 0

S(x^11\_12) + y^11\_12= 0

S(x^11\_13) + y^11\_13= 0

S(x^12\_0) + y^12\_0= 0

S(x^12\_3) + y^12\_3= 0

S(x^12\_4) + y^12\_4= 0

S(x^12\_9) + y^12\_9= 0

S(x^12\_10) + y^12\_10= 0

S(x^12\_11) + y^12\_11= 0

S(x^12\_12) + y^12\_12= 0

S(x^13\_3) + y^13\_3= 0

S(x^13\_9) + y^13\_9= 0

S(x^13\_12) + y^13\_12= 0

S(x^14\_3) + y^14\_3= 0

the 4 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

[y^2\_1] + y^2\_11 + [y^2\_14] + x^3\_1 + k^2\_1= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + x^3\_15 + k^2\_3= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_2 + y^3\_8 + y^3\_15 + x^4\_2 + k^3\_2= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

y^4\_2 + x^5\_6 + k^4\_2= 0

[y^5\_1] + [y^5\_11] + x^6\_13 + k^5\_1= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

y^5\_6 + y^5\_9 + x^6\_11 + k^5\_6= 0

[y^6\_0] + [y^6\_10] + y^6\_13 + x^7\_0 + k^6\_0= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_1 + y^6\_11 + x^7\_13 + k^6\_1= 0

[y^6\_5] + [y^6\_8] + x^7\_10 + k^6\_5= 0

[y^6\_7] + [y^6\_10] + x^7\_8 + k^6\_7= 0

y^7\_0 + y^7\_10 + y^7\_13 + x^8\_0 + k^7\_0= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^8\_0 + y^8\_10 + [y^8\_13] + [x^9\_0] + k^8\_0= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_1) + y^3\_1= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_14) + y^3\_14= 0

S(x^3\_15) + y^3\_15= 0

S(x^4\_2) + y^4\_2= 0

S(x^5\_6) + y^5\_6= 0

S(x^6\_11) + y^6\_11= 0

S(x^6\_13) + y^6\_13= 0

S(x^7\_0) + y^7\_0= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_8) + y^7\_8= 0

S(x^7\_10) + y^7\_10= 0

S(x^7\_13) + y^7\_13= 0

S(x^8\_0) + y^8\_0= 0

S(x^8\_10) + y^8\_10= 0

the 5 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_3 + y^2\_9 + x^3\_15 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_2 + y^3\_8 + y^3\_15 + x^4\_2 + k^3\_2= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_2 + y^4\_8 + x^5\_14 + k^4\_2= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_1] + [y^5\_11] + y^5\_14 + x^6\_1 + k^5\_1= 0

[y^5\_1] + [y^5\_11] + x^6\_13 + k^5\_1= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

[y^6\_0] + [y^6\_10] + y^6\_13 + x^7\_0 + k^6\_0= 0

y^6\_1 + y^6\_11 + [y^6\_14] + [x^7\_1] + k^6\_1= 0

y^6\_1 + x^7\_5 + k^6\_1= 0

y^6\_1 + y^6\_11 + x^7\_13 + k^6\_1= 0

[y^6\_5] + [y^6\_8] + x^7\_10 + k^6\_5= 0

[y^6\_7] + [y^6\_10] + x^7\_8 + k^6\_7= 0

y^7\_0 + y^7\_10 + y^7\_13 + x^8\_0 + k^7\_0= 0

y^7\_5 + y^7\_8 + x^8\_10 + k^7\_5= 0

y^8\_0 + y^8\_10 + [y^8\_13] + [x^9\_0] + k^8\_0= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_12) + y^2\_12= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_15) + y^3\_15= 0

S(x^4\_2) + y^4\_2= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_14) + y^5\_14= 0

S(x^6\_1) + y^6\_1= 0

S(x^6\_13) + y^6\_13= 0

S(x^7\_0) + y^7\_0= 0

S(x^7\_5) + y^7\_5= 0

S(x^7\_8) + y^7\_8= 0

S(x^7\_10) + y^7\_10= 0

S(x^7\_13) + y^7\_13= 0

S(x^8\_0) + y^8\_0= 0

S(x^8\_10) + y^8\_10= 0

the 6 equation set is:

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_1 + x^4\_5 + k^3\_1= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

y^4\_5 + y^4\_8 + x^5\_10 + k^4\_5= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

[y^5\_7] + y^5\_10 + [x^6\_8] + k^5\_7= 0

S(x^1\_7) + y^1\_7= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_12) + y^2\_12= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_14) + y^3\_14= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_5) + y^4\_5= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_10) + y^5\_10= 0

the 7 equation set is:

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

y^1\_1 + y^1\_11 + [y^1\_14] + [x^2\_1] + k^1\_1= 0

y^1\_1 + x^2\_5 + k^1\_1= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

[y^2\_1] + y^2\_11 + [y^2\_14] + x^3\_1 + k^2\_1= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_5 + y^2\_8 + x^3\_10 + k^2\_5= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

S(x^1\_11) + y^1\_11= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_5) + y^2\_5= 0

S(x^3\_1) + y^3\_1= 0

S(x^3\_10) + y^3\_10= 0

S(x^3\_14) + y^3\_14= 0

S(x^4\_4) + y^4\_4= 0

S(x^5\_9) + y^5\_9= 0

the 8 equation set is:

y^1\_1 + y^1\_11 + [y^1\_14] + [x^2\_1] + k^1\_1= 0

y^1\_1 + y^1\_11 + x^2\_13 + k^1\_1= 0

y^2\_0 + y^2\_10 + y^2\_13 + x^3\_0 + k^2\_0= 0

y^2\_0 + y^2\_10 + x^3\_12 + k^2\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_3 + y^3\_9 + y^3\_12 + [x^4\_3] + k^3\_3= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

S(x^2\_13) + y^2\_13= 0

S(x^3\_0) + y^3\_0= 0

S(x^3\_12) + y^3\_12= 0

S(x^4\_4) + y^4\_4= 0

S(x^5\_9) + y^5\_9= 0

the 9 equation set is:

y^0\_3 + [y^0\_9] + [y^0\_12] + x^1\_3 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

y^1\_1 + y^1\_11 + [y^1\_14] + [x^2\_1] + k^1\_1= 0

y^1\_1 + y^1\_11 + x^2\_13 + k^1\_1= 0

y^1\_3 + x^2\_7 + k^1\_3= 0

y^2\_0 + y^2\_10 + y^2\_13 + x^3\_0 + k^2\_0= 0

y^2\_0 + x^3\_4 + k^2\_0= 0

y^2\_7 + y^2\_10 + x^3\_8 + k^2\_7= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_4 + [y^3\_11] + [x^4\_9] + k^3\_4= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

S(x^1\_3) + y^1\_3= 0

S(x^2\_7) + y^2\_7= 0

S(x^2\_13) + y^2\_13= 0

S(x^3\_0) + y^3\_0= 0

S(x^3\_4) + y^3\_4= 0

S(x^3\_8) + y^3\_8= 0

S(x^4\_4) + y^4\_4= 0

S(x^5\_9) + y^5\_9= 0

the 10 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_3 + y^2\_9 + x^3\_15 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_2 + y^3\_8 + y^3\_15 + x^4\_2 + k^3\_2= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_2 + y^4\_8 + [y^4\_15] + [x^5\_2] + k^4\_2= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_12) + y^2\_12= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_15) + y^3\_15= 0

S(x^4\_2) + y^4\_2= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_9) + y^5\_9= 0

the 11 equation set is:

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_3 + x^3\_7 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

[y^2\_6] + y^2\_9 + [x^3\_11] + k^2\_6= 0

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + x^4\_4 + k^3\_0= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_1 + x^4\_5 + k^3\_1= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^3\_7 + y^3\_10 + x^4\_8 + k^3\_7= 0

[y^4\_0] + [y^4\_10] + [y^4\_13] + x^5\_0 + k^4\_0= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

y^4\_4 + y^4\_11 + x^5\_9 + k^4\_4= 0

y^4\_5 + y^4\_8 + x^5\_10 + k^4\_5= 0

y^5\_0 + y^5\_10 + [y^5\_13] + [x^6\_0] + k^5\_0= 0

[y^5\_3] + y^5\_9 + [x^6\_15] + k^5\_3= 0

S(x^1\_7) + y^1\_7= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_12) + y^2\_12= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_7) + y^3\_7= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_14) + y^3\_14= 0

S(x^4\_4) + y^4\_4= 0

S(x^4\_5) + y^4\_5= 0

S(x^4\_8) + y^4\_8= 0

S(x^5\_0) + y^5\_0= 0

S(x^5\_9) + y^5\_9= 0

S(x^5\_10) + y^5\_10= 0

the 12 equation set is:

[y^5\_4] + [y^5\_11] + x^6\_9 + k^5\_4= 0

[y^6\_6] + y^6\_9 + [x^7\_11] + k^6\_6= 0

S(x^6\_9) + y^6\_9= 0

the 13 equation set is:

[y^4\_7] + [y^4\_10] + x^5\_8 + k^4\_7= 0

[y^5\_2] + y^5\_8 + [y^5\_15] + x^6\_2 + k^5\_2= 0

y^6\_2 + [y^6\_8] + [x^7\_14] + k^6\_2= 0

S(x^5\_8) + y^5\_8= 0

S(x^6\_2) + y^6\_2= 0

the 14 equation set is:

[y^4\_7] + [y^4\_10] + x^5\_8 + k^4\_7= 0

[y^5\_5] + y^5\_8 + [x^6\_10] + k^5\_5= 0

S(x^5\_8) + y^5\_8= 0

the 15 equation set is:

[y^4\_7] + [y^4\_10] + x^5\_8 + k^4\_7= 0

[y^5\_2] + y^5\_8 + [x^6\_14] + k^5\_2= 0

S(x^5\_8) + y^5\_8= 0

the 16 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_2 + x^1\_6 + k^0\_2= 0

y^0\_2 + [y^0\_8] + [x^1\_14] + k^0\_2= 0

y^0\_3 + [y^0\_9] + [y^0\_12] + x^1\_3 + k^0\_3= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_6 + y^1\_9 + x^2\_11 + k^1\_6= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [y^2\_14] + x^3\_1 + k^2\_1= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

S(x^1\_3) + y^1\_3= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_6) + y^1\_6= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_11) + y^2\_11= 0

S(x^2\_12) + y^2\_12= 0

S(x^3\_1) + y^3\_1= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_9) + y^3\_9= 0

S(x^3\_14) + y^3\_14= 0

the 17 equation set is:

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_5] + [y^0\_8] + x^1\_10 + k^0\_5= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [y^2\_14] + x^3\_1 + k^2\_1= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + x^3\_14 + k^2\_2= 0

y^3\_1 + [y^3\_11] + y^3\_14 + [x^4\_1] + k^3\_1= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_10) + y^1\_10= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_8) + y^2\_8= 0

S(x^3\_1) + y^3\_1= 0

S(x^3\_14) + y^3\_14= 0

the 18 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

y^3\_2 + y^3\_8 + x^4\_14 + k^3\_2= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

[y^3\_5] + y^3\_8 + [x^4\_10] + k^3\_5= 0

[y^4\_1] + y^4\_11 + y^4\_14 + [x^5\_1] + k^4\_1= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_12) + y^2\_12= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_9) + y^3\_9= 0

S(x^4\_14) + y^4\_14= 0

the 19 equation set is:

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^2\_2 + x^3\_6 + k^2\_2= 0

y^3\_3 + [x^4\_7] + k^3\_3= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^3\_6 + y^3\_9 + x^4\_11 + k^3\_6= 0

[y^4\_1] + y^4\_11 + [x^5\_13] + k^4\_1= 0

S(x^2\_2) + y^2\_2= 0

S(x^3\_6) + y^3\_6= 0

S(x^4\_11) + y^4\_11= 0

the 20 equation set is:

y^3\_0 + y^3\_10 + [y^3\_13] + [x^4\_0] + k^3\_0= 0

y^3\_0 + y^3\_10 + x^4\_12 + k^3\_0= 0

[y^4\_3] + [y^4\_9] + y^4\_12 + [x^5\_3] + k^4\_3= 0

S(x^4\_12) + y^4\_12= 0

the 21 equation set is:

y^0\_0 + x^1\_4 + k^0\_0= 0

y^0\_0 + y^0\_10 + x^1\_12 + k^0\_0= 0

y^0\_3 + x^1\_7 + k^0\_3= 0

y^0\_3 + [y^0\_9] + [x^1\_15] + k^0\_3= 0

[y^0\_6] + [y^0\_9] + x^1\_11 + k^0\_6= 0

[y^0\_7] + y^0\_10 + [x^1\_8] + k^0\_7= 0

y^1\_0 + x^2\_4 + k^1\_0= 0

y^1\_0 + y^1\_10 + x^2\_12 + k^1\_0= 0

[y^1\_2] + [y^1\_8] + [y^1\_15] + x^2\_2 + k^1\_2= 0

y^1\_3 + y^1\_9 + y^1\_12 + x^2\_3 + k^1\_3= 0

y^1\_3 + y^1\_9 + x^2\_15 + k^1\_3= 0

y^1\_4 + y^1\_11 + x^2\_9 + k^1\_4= 0

y^1\_7 + y^1\_10 + x^2\_8 + k^1\_7= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^2\_2 + y^2\_8 + y^2\_15 + x^3\_2 + k^2\_2= 0

y^2\_3 + y^2\_9 + y^2\_12 + x^3\_3 + k^2\_3= 0

y^2\_4 + y^2\_11 + x^3\_9 + k^2\_4= 0

y^3\_2 + x^4\_6 + k^3\_2= 0

y^3\_3 + y^3\_9 + [x^4\_15] + k^3\_3= 0

y^4\_6 + [y^4\_9] + [x^5\_11] + k^4\_6= 0

S(x^1\_4) + y^1\_4= 0

S(x^1\_7) + y^1\_7= 0

S(x^1\_11) + y^1\_11= 0

S(x^1\_12) + y^1\_12= 0

S(x^2\_2) + y^2\_2= 0

S(x^2\_3) + y^2\_3= 0

S(x^2\_4) + y^2\_4= 0

S(x^2\_8) + y^2\_8= 0

S(x^2\_9) + y^2\_9= 0

S(x^2\_12) + y^2\_12= 0

S(x^2\_15) + y^2\_15= 0

S(x^3\_2) + y^3\_2= 0

S(x^3\_3) + y^3\_3= 0

S(x^3\_9) + y^3\_9= 0

S(x^4\_6) + y^4\_6= 0

the 22 equation set is:

[y^2\_1] + y^2\_11 + [y^2\_14] + x^3\_1 + k^2\_1= 0

[y^2\_1] + y^2\_11 + [x^3\_13] + k^2\_1= 0

y^3\_1 + [y^3\_11] + [x^4\_13] + k^3\_1= 0

S(x^3\_1) + y^3\_1= 0

the 23 equation set is:

[y^1\_2] + [x^2\_6] + k^1\_2= 0

the 24 equation set is:

[y^1\_2] + [y^1\_8] + [x^2\_14] + k^1\_2= 0

the 25 equation set is:

[y^2\_1] + [x^3\_5] + k^2\_1= 0

the 26 equation set is:

[y^4\_0] + [x^5\_4] + k^4\_0= 0

the 27 equation set is:

[y^4\_0] + [y^4\_10] + [x^5\_12] + k^4\_0= 0

the 28 equation set is:

[y^4\_1] + [x^5\_5] + k^4\_1= 0

the 29 equation set is:

[y^4\_3] + [x^5\_7] + k^4\_3= 0

the 30 equation set is:

[y^4\_3] + [y^4\_9] + [x^5\_15] + k^4\_3= 0

the 31 equation set is:

[y^5\_1] + [x^6\_5] + k^5\_1= 0

the 32 equation set is:

[y^5\_2] + [x^6\_6] + k^5\_2= 0

the 33 equation set is:

[y^5\_3] + [x^6\_7] + k^5\_3= 0

the 34 equation set is:

[y^6\_0] + [x^7\_4] + k^6\_0= 0

the 35 equation set is:

[y^7\_1] + [y^7\_11] + [x^8\_13] + k^7\_1= 0