In[136]:=
```
Remove[x];
```

In[137]:=
```
k =
 1 762 676 465 144 323 736 067 531 492 445 426 472 572 506 888 133 023 637 595 124 094 781 ⋱.
  513 311 794 822 925 047 637 182 709 666
```

Out[137]=
```
1 762 676 465 144 323 736 067 531 492 445 426 472 572 506 888 133 023 637 595 124 094 781 513 ⋱.
 311 794 822 925 047 637 182 709 666
```

In[138]:=
```
X = Flatten[Array[Subscript[x, #1] &, {20, 1}]];
```

In[139]:=
```
T = (3 X[[1]] - 9 X[[5]] × X[[6]]) × (14 X[[3]]^3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]]^2 × X[[9]]) ×
     (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]]^2 - 9 X[[14]] × X[[18]]) ×
     (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
    4 034 500 221 X[[1]]^2 × X[[4]] × X[[7]]^3 × X[[9]] × X[[10]]^2 × X[[18]] × X[[20]]^3
```

Out[139]=
$$-4\,034\,500\,221\,x_1^2\,x_4\,x_7^3\,x_9\,x_{10}^2\,x_{18}\,x_{20}^3 + (3\,x_1 - 9\,x_5\,x_6) \times \left(14\,x_3^3 - 56\,x_4\,x_7\right) \times \left(2\,x_4 - 9\,x_2^2\,x_9\right) \times (17\,x_6 - 61\,x_8\,x_{11})\left(x_{13} + x_{16}^2 - 9\,x_{14}\,x_{18}\right)(x_{12} - 9\,x_{15}\,x_{19})\,(x_{10} - 9\,x_{17}\,x_{20})$$

In[140]:=
```
X = Table[RandomInteger[{-258 000, 258 000}], 20];
```

In[141]:=
```
T = (3 X[[1]] - 9 X[[5]] × X[[6]]) × (14 X[[3]]^3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]]^2 × X[[9]]) ×
     (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]]^2 - 9 X[[14]] × X[[18]]) ×
     (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
    4 034 500 221 X[[1]]^2 × X[[4]] × X[[7]]^3 × X[[9]] × X[[10]]^2 × X[[18]] × X[[20]]^3
```

Out[141]=
```
3 003 402 458 101 001 866 226 493 332 391 386 938 700 723 009 182 097 484 949 204 380 461 190 ⋱.
 670 292 563 492 642 944 000
```

In[154]:=
```
While[RealAbs[T - k] > .00001 k,

 X = Table[
   RandomInteger[{RandomInteger[{-2 580 000, 0}], RandomInteger[{0, 2 580 000}]}], 20];

 T = (3 X[[1]] - 9 X[[5]] × X[[6]]) × (14 X[[3]]^3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]]^2 × X[[9]]) ×
      (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]]^2 - 9 X[[14]] × X[[18]]) ×
      (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
     4 034 500 221 X[[1]]^2 × X[[4]] × X[[7]]^3 × X[[9]] × X[[10]]^2 × X[[18]] × X[[20]]^3];
```

Out[154]=
```
$Aborted
```

```
T
X
```

In[163]:=
```
While[RealAbs[T - k] > .0000001 k,

  X[[1]] = RandomInteger[{-1 156 411, 1 156 411}];
  X[[2]] = RandomInteger[{-581 531, 581 531}];
  X[[3]] = RandomInteger[{-818 850, 818 850}];
  X[[4]] = RandomInteger[{-1 606 456, 1 606 456}];
  X[[5]] = RandomInteger[{-397 597, 397 597}];
  X[[6]] = RandomInteger[{-603 880, 603 880}];
  X[[7]] = RandomInteger[{-541 544, 541 544}];
  X[[8]] = RandomInteger[{-246 015, 246 015}];
  X[[9]] = RandomInteger[{-481 183, 481 183}];
  X[[10]] = RandomInteger[{-2 068 060, 2 068 060}];
  X[[11]] = RandomInteger[{-940 603, 940 603}];
  X[[12]] = RandomInteger[{-78 791, 78 791}];
  X[[13]] = RandomInteger[{-615 863, 615 863}];
  X[[14]] = RandomInteger[{-1 385 342, 1 385 342}];
  X[[15]] = RandomInteger[{-1 619 879, 1 619 879}];
  X[[16]] = RandomInteger[{-288 391, 288 391}];
  X[[17]] = RandomInteger[{-989 924, 989 924}];
  X[[18]] = RandomInteger[{-1 804 882, 1 804 882}];
  X[[19]] = RandomInteger[{-743 138, 743 138}];
  X[[20]] = RandomInteger[{-554 790, 554 790}];

  T = (3 X[[1]] - 9 X[[5]] × X[[6]]) × (14 X[[3]] ^ 3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]] ^ 2 × X[[9]]) ×
      (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]] ^ 2 - 9 X[[14]] × X[[18]]) ×
      (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
    4 034 500 221 X[[1]] ^ 2 × X[[4]] × X[[7]] ^ 3 × X[[9]] × X[[10]] ^ 2 × X[[18]] × X[[20]] ^ 3];
```

Out[163]=
```
$Aborted
```

In[161]:=
```
T
X
```

1 762 676 465 144 323 736 067 531 492 445 426 472 572 506 888 133 023 637 595 124 094 781 ⋱.
513 311 794 822 925 047 637 182 709 666 = k

1 762 676 021 002 622 892 795 168 725 796 267 416 630 597 604 317 946 149 108 699 075 316 ⋱.
602 401 134 606 232 904 398 630 662 912
1 762 667 818 679 350 212 847 821 140 064 569 507 620 711 557 964 059 216 568 942 808 005 ⋱.
761 874 443 631 162 930 874 147 944 680
1 762 752 406 819 777 791 529 530 327 599 572 662 391 301 012 625 945 239 985 842 222 323 ⋱.
132 546 595 647 521 400 302 562 375 680
1 762 847 010 350 434 634 953 303 025 489 436 633 560 258 864 626 134 233 475 652 600 919 ⋱.
910 572 466 886 276 756 453 825 447 680
{560 457, 177 373, −474 478, 758 101, 169 949, 334 264,
−11 695, 4152, −452 552, −2 043 222, −773 294, 32 413, −386 466,
1 048 283, −1 308 906, 282 065, −854 134, 1 003 178, 382 027, −282 924}
{850 773, 319 166, 125 991, 574 879, 349 343, 511 564, 341 509,
−127 532, −116 385, −1 622 766, 677 200, −37 338, 575 252, −1 352 821,
−1 458 522, −69 339, −618 535, −864 902, −294 361, −307 657}
{442 041, −186 929, 307 892, −1 606 456, −397 597, 1 603 880,
541 544, 246 015, 481 183, −2 068 060, 940 603, 78 791, 615 863,
445 008, 9265, 288 391, 810 831, −1 804 882, 582 701, 135 713}
{1 156 411, −581 531, −818 850, −1 070 344, −285 794, −217 840, 70 110, −5034, −62 855,
6271, −326 556, 54 260, 476 995, 1 385 342, 1 619 879, 118 986, 989 924, 33 090,
743 138, 554 790}

In[167]:=
```
X = {560 457, 177 373, -474 478, 758 101, 169 949, 334 264, -11 695, 4152, -452 552, -2 043 222,
  -773 294, 32 413, -386 466, 1 048 283, -1 308 906, 282 065, -854 134, 1 003 178, 382 027, -282 924}
```

Out[167]=
```
{560 457, 177 373, -474 478, 758 101, 169 949, 334 264, -11 695, 4152, -452 552, -2 043 222,
 -773 294, 32 413, -386 466, 1 048 283, -1 308 906, 282 065, -854 134, 1 003 178, 382 027, -282 924}
```

In[168]:=
```
T = (3 X[[1]] - 9 X[[5]] × X[[6]]) ×
    (14 X[[3]]^3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]]^2 × X[[9]]) ×
    (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]]^2 - 9 X[[14]] × X[[18]]) ×
    (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
  4 034 500 221 X[[1]]^2 × X[[4]] × X[[7]]^3 × X[[9]] × X[[10]]^2 × X[[18]] × X[[20]]^3
```

Out[168]=
```
1 762 676 021 002 622 892 795 168 725 796 267 416 630 597 604 317 946 149 108 699 075 316 602 401 134 606 ⋱
 232 904 398 630 662 912
```

In[169]:=
```
X = {850 773, 319 166, 125 991, 574 879, 349 343, 511 564,
  341 509, -127 532, -116 385, -1 622 766, 677 200, -37 338, 575 252,
  -1 352 821, -1 458 522, -69 339, -618 535, -864 902, -294 361, -307 657}
```

Out[169]=
```
{850 773, 319 166, 125 991, 574 879, 349 343, 511 564,
 341 509, -127 532, -116 385, -1 622 766, 677 200, -37 338, 575 252,
 -1 352 821, -1 458 522, -69 339, -618 535, -864 902, -294 361, -307 657}
```

In[170]:=
```
T = (3 X[[1]] - 9 X[[5]] × X[[6]]) ×
    (14 X[[3]]^3 - 56 X[[4]] × X[[7]]) × (2 X[[4]] - 9 X[[2]]^2 × X[[9]]) ×
    (17 X[[6]] - 61 X[[8]] × X[[11]]) (X[[13]] + X[[16]]^2 - 9 X[[14]] × X[[18]]) ×
    (X[[12]] - 9 X[[15]] × X[[19]]) × (X[[10]] - 9 X[[17]] × X[[20]]) -
  4 034 500 221 X[[1]]^2 × X[[4]] × X[[7]]^3 × X[[9]] × X[[10]]^2 × X[[18]] × X[[20]]^3
```

Out[170]=
```
1 762 667 818 679 350 212 847 821 140 064 569 507 620 711 557 964 059 216 568 942 808 005 761 874 443 631 ÷
 162 930 874 147 944 680
```