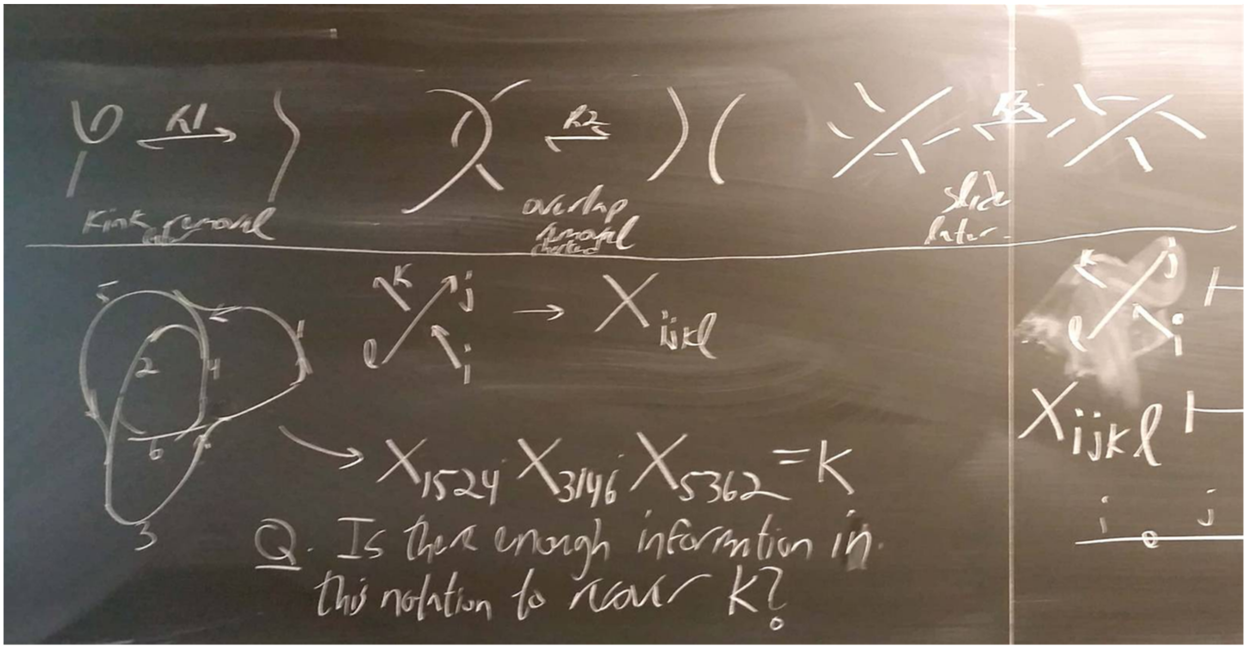
```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\BBS"];
srcdir = "C:\\drorbn\\BBS\\shots\\"
```

```
C:\drorbn\BBS\shots\
```

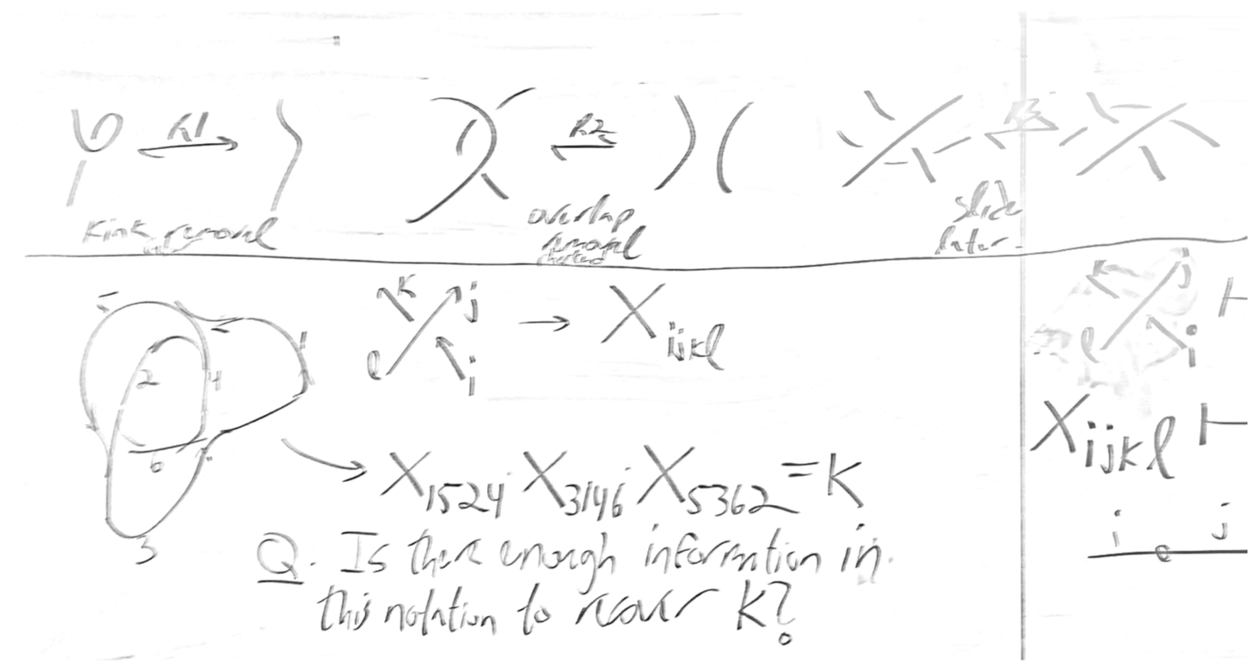
```
fnames = FileNames["17-1750-*", srcdir]
```

```
{C:\drorbn\BBS\shots\17-1750-170911-111542.jpg,
 C:\drorbn\BBS\shots\17-1750-170911-111543.jpg,
 C:\drorbn\BBS\shots\17-1750-170911-111544.jpg,
 C:\drorbn\BBS\shots\17-1750-170911-111545.jpg,
 C:\drorbn\BBS\shots\17-1750-170911-111546.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123315.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123316.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123317.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123318.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123319.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123320.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123321.jpg,
 C:\drorbn\BBS\shots\17-1750-170915-123322.jpg,
 C:\drorbn\BBS\shots\17-1750-170918-111026.jpg,
 C:\drorbn\BBS\shots\17-1750-170918-111027.jpg,
 C:\drorbn\BBS\shots\17-1750-170922-121308.jpg,
 C:\drorbn\BBS\shots\17-1750-170922-121309.jpg,
 C:\drorbn\BBS\shots\17-1750-170925-111210.jpg,
 C:\drorbn\BBS\shots\17-1750-170925-111211.jpg,
 C:\drorbn\BBS\shots\17-1750-170925-111212.jpg,
 C:\drorbn\BBS\shots\17-1750-170925-111213.jpg,
 C:\drorbn\BBS\shots\17-1750-170929-142832.jpg,
 C:\drorbn\BBS\shots\17-1750-170929-142833.jpg,
 C:\drorbn\BBS\shots\17-1750-170929-142834.jpg,
 C:\drorbn\BBS\shots\17-1750-170929-142835.jpg,
 C:\drorbn\BBS\shots\17-1750-170929-142836.jpg,
 C:\drorbn\BBS\shots\17-1750-171002-111023.jpg,
 C:\drorbn\BBS\shots\17-1750-171002-111024.jpg}
```

```
Rasterize[shot = Import[fnames[[8]]]]
```

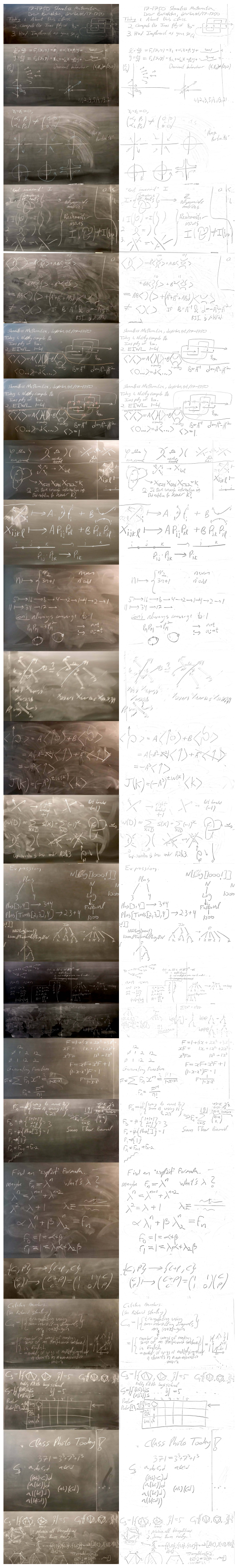


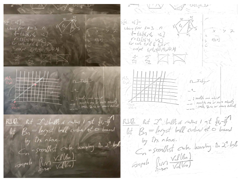

```
BBImprove[shot_] := Module[{diag, s1, s2},
   diag = Norm[ImageDimensions[shot]];
   s1 = ColorConvert[shot, "Grayscale"];
   s2 = ImageAdjust[
      ImageApply[Max[#1 - #2, 0] &, {s1, Blur[s1, 0.01 diag]}]] // ColorNegate;
   ImageAdjust[s2, 0.05]
  ];
BBImprove[shot] // Rasterize
```



```
origs = Import /@ fnames;
imps = BBImprove /@ origs;

ImageAssemble[Transpose[{origs, imps}]] // Rasterize
```





```
Length[fnames]
```

28

```
300 {8./3, 10.5/9}
```

{800., 350.}

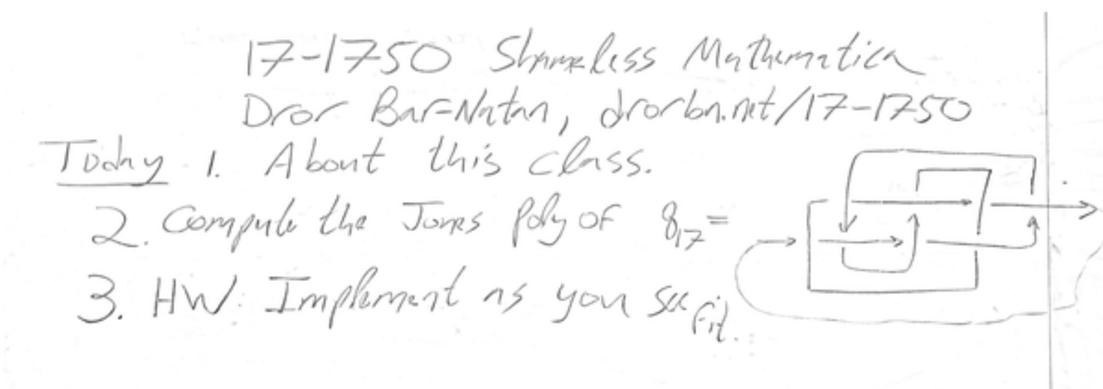
```
ImageDimensions[origs[[1]]]
```

{1600, 556}

```
Min[ImageDimensions[origs[[1]]] / {600.`, 450.`}]
```

1.23556

```
ImageRescale[img_, {w_, h_}] := ImageCrop[
   ImageResize[img, Scaled[Min[{w, h} / ImageDimensions[img]]]],
   {w, h}, Padding → White
  ];
ImageRescale[imps[[1]], {600, 450}] // Rasterize
```



```
Rasterize[
 ContactSheet = ImageAssemble[Partition[ImageRescale[#, {800, 350}] & /@ imps, 3]]]
```


17-1750 Shameless Mathematica
Dror Bar-Natan, drorbn.net/17-1750
Expression.
Generating Function
Catalan Numbers:
Class Photo Today!?

```
Export["ContactSheet.png", ContactSheet]
ContactSheet.png
```