For DPhil Broadening for C2.6 Schemes -----I've picked the following 7 sub-parts of the homework exercises from the course page: https://courses.maths.ox.ac.uk/node/42487/materials Let's say hand in is by end of April (if you need more time, just let me know). By hand in I mean: please send me via email in PDF format your scanned hand-written or latexed solutions. Sheet 1 1 (ii) the constant sheaf is actually the sheaf of locally constant functions 3 (i) generic points Sheet 2 1 (i) building P^n by gluing 6 (ii) deformation xy=t Sheet 3 2 (ii) A^2\0 is a variety but is not affine Sheet 4 1 (vi) failure of surjectivity of exp 5 (iii) ideal sheaves in P^1 Best Alex