

# Instructions for the Line-Wise Conic

Note: With the below instructions, I have given you a template (see next page), where lines  $x$  and  $\ell$ , and points  $P$  and  $Q$  are all given. You will need to draw in line  $Y$  somewhere on the page.

- 1) Find 20 points on line  $x$ . [This has been done for you.]
- 2) From each one of these 20 points on  $x$ , draw a line passing through  $P$ . [This has been done for you.]
- 3) With each one of these 20 lines on  $p$ , find where it intersects with line  $\ell$ .
- 4) From each one of these 20 points on  $\ell$ , draw a line (lightly in lead pencil) passing through  $Q$ .
- 5) With each one of these 20 lines on  $Q$ , find where it intersects with line  $y$ .
- 6) Draw the 20 connecting lines (in color) from each point on  $x$  to its corresponding point on  $y$ .

Projective Geometry

# Conic Transformation

