

Instructions for Drawing point-wise and line-wise conics

(It may be best to give the line-wise instructions to the students, and then have them figure out the dual process.)

Line-wise Conic

- 1) Find 20 points on line x .
- 2) From each one of these 20 points on x , draw a line passing through P .
- 3) With each one of these 20 lines on p , find where it intersects with line ℓ .
- 4) From each one of these 20 points on ℓ , draw a line 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 from each point on x to its corresponding point on y .

Point-wise Conic

- 1) Draw 20 lines on point X .
- 2) With each one of these 20 lines on X , find where it intersects with line p .
- 3) From each one of these 20 points on p , draw a line passing through L .
- 4) With each one of these 20 lines on L , find where it intersects with line q .
- 5) From each one of these 20 points on q , draw a line passing through Y .
- 6) Find the 20 connecting points by finding the points of intersection of each line on X and its corresponding line on Y .