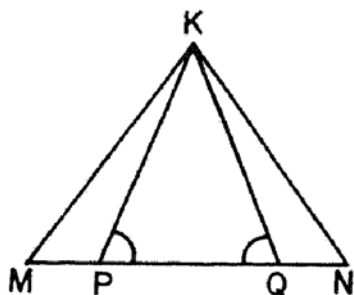


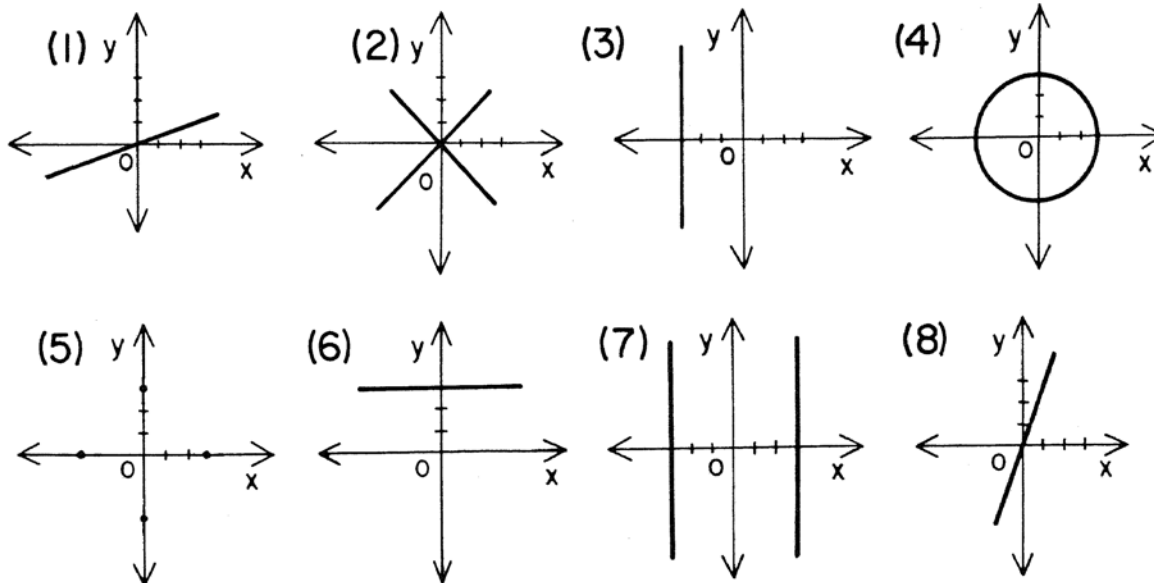
Show all work unless otherwise directed.

- 32 Given:  $\overline{MPQN}$  with  $\overline{MP} \cong \overline{QN}$  and  $\angle KPQ \cong \angle KQP$  as shown in the accompanying figure.



Prove:  $\triangle KMN$  is an isosceles triangle. [10]

- 33 Write the letters *a* through *e* on your answer paper and next to *each* letter write the *number* of the graph, chosen from the diagram below, which best corresponds to the locus description given in *a* through *e*. [10]



- a* The locus of points 3 units from the *y*-axis
- b* The locus of points 3 units from the origin
- c* The locus of points whose abscissas are 3 times their ordinates
- d* The locus of points equidistant from the coordinate axes
- e* The locus of points equidistant from the points (3,0) and (3,6)