Directrix of an ellipse



If *A* and *B* are two points, then the locus of points *P* such that AP + BP = c for a constant c > 2AB is an ellipse. *A* and *B* are the *foci* (plural of focus) of this ellipse.

If an ellipse has centre (0,0), eccentricity *e* and semi-major axis *a* in the *x*-direction, then its foci are at ($\pm ae$, 0) and its *directrices* are $x = \pm a/e$.