



morph2



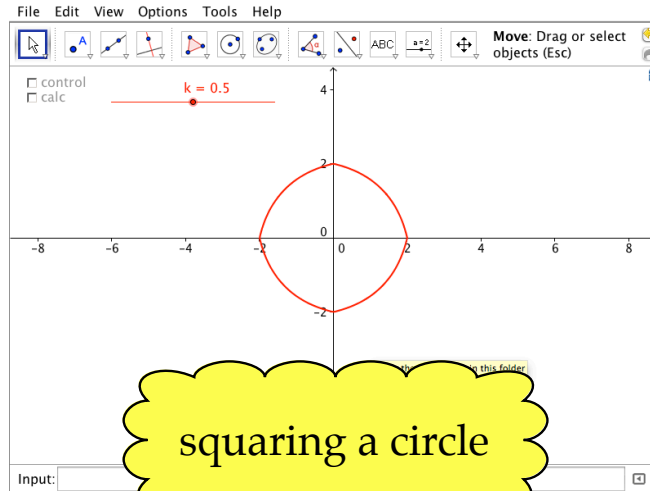
morph2



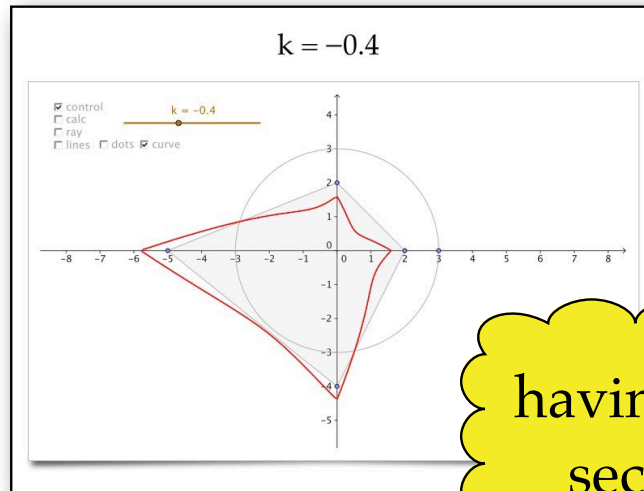
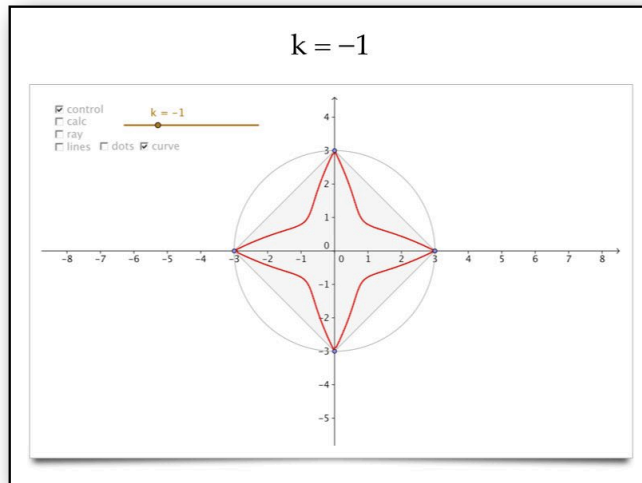
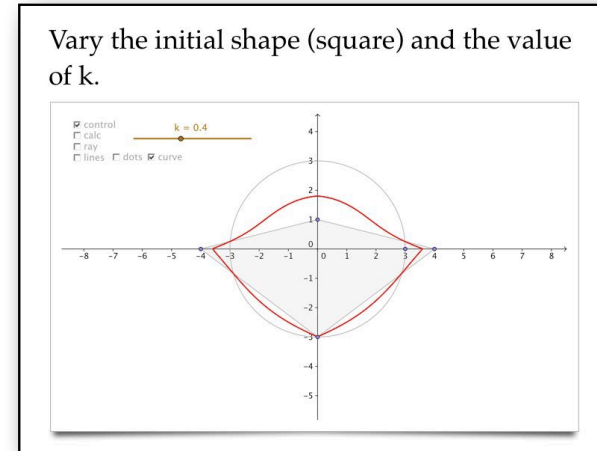
[GeoGebraTube](#)



[Screenr](#)



squaring a circle



having fun with the section formula

based on project ideas with Geometer's Sketchpad

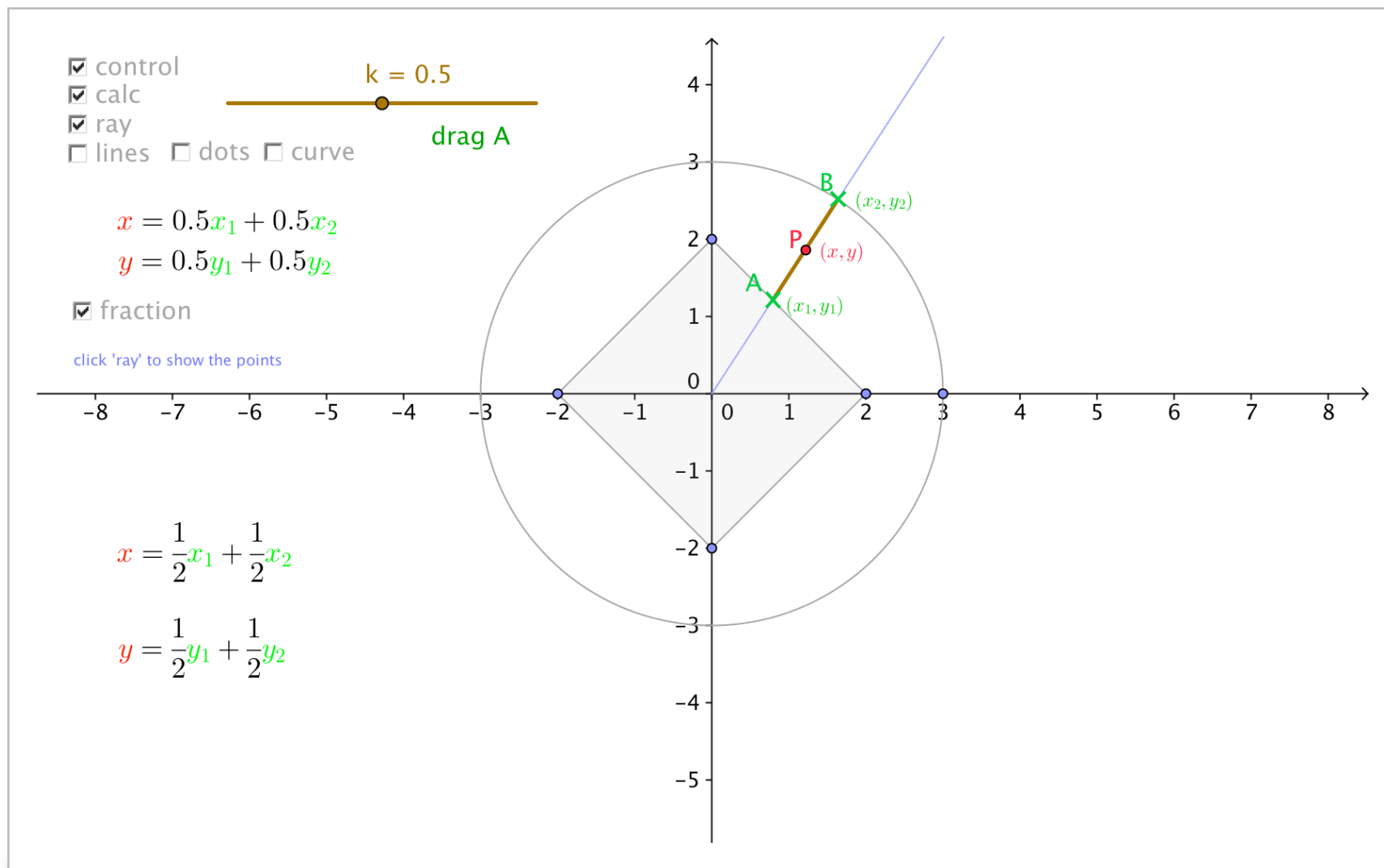


<http://www.dynamicgeometry.com/Documents/GSP4-I01Projects.pdf>



[http://www.dynamicgeometry.com/General\\_Resources/I01\\_Project\\_Ideas.html](http://www.dynamicgeometry.com/General_Resources/I01_Project_Ideas.html)

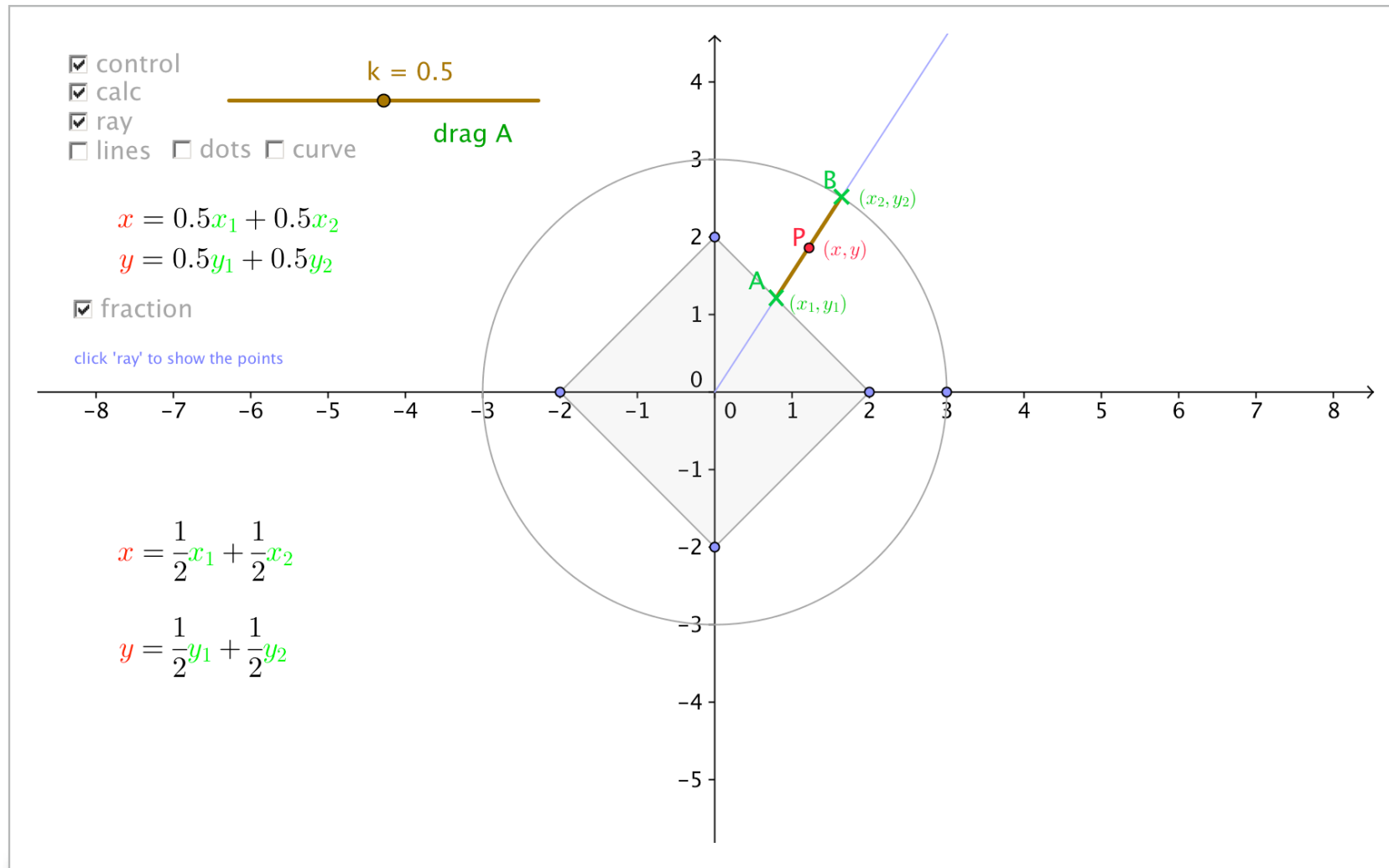
Construct a circle, a square, a ray from origin to a point A (movable on the square) cutting the circle at B.



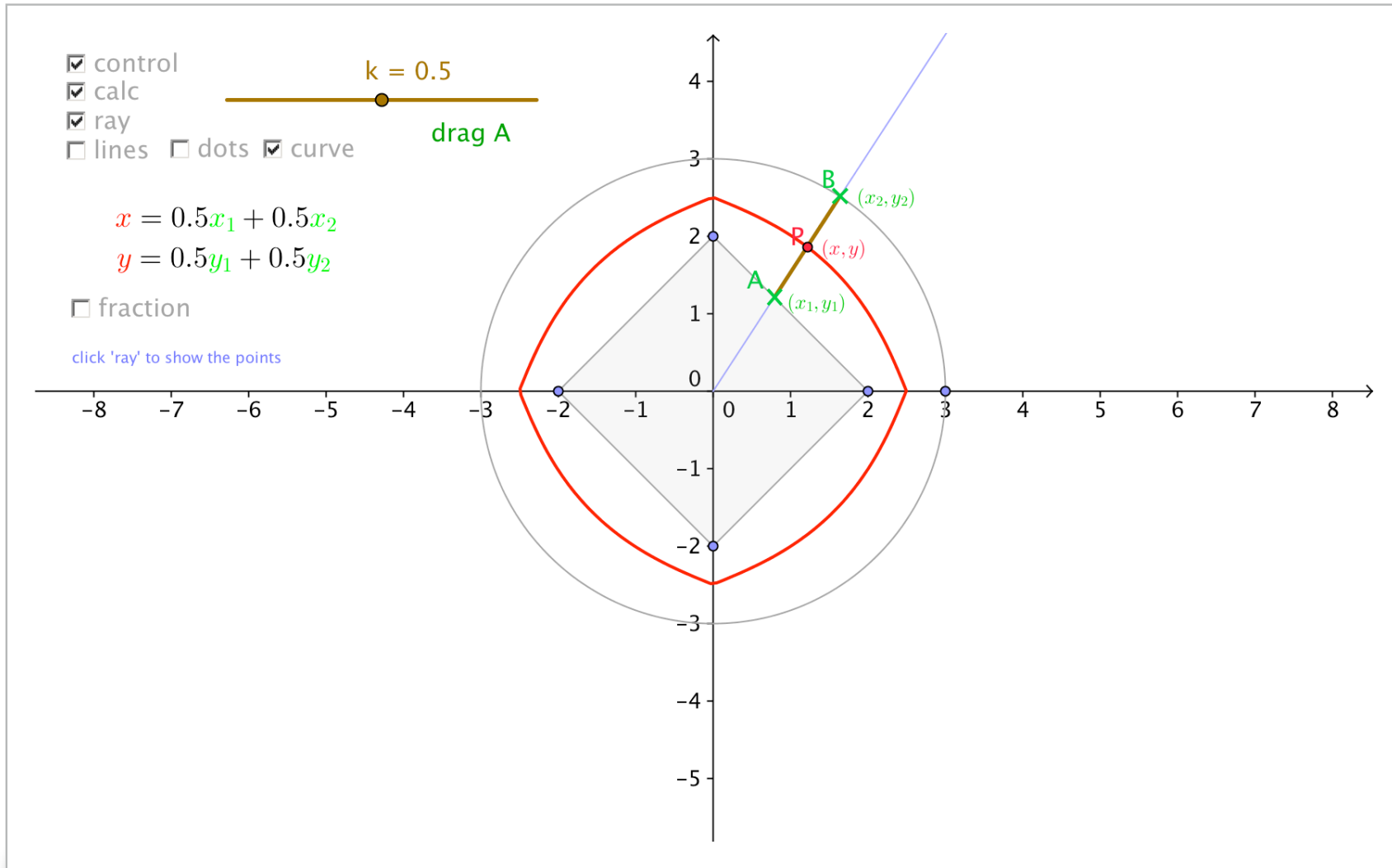
Insert a slider k. Create point P on AB with ratio  $AP / AB = k$ .

INPUT ->

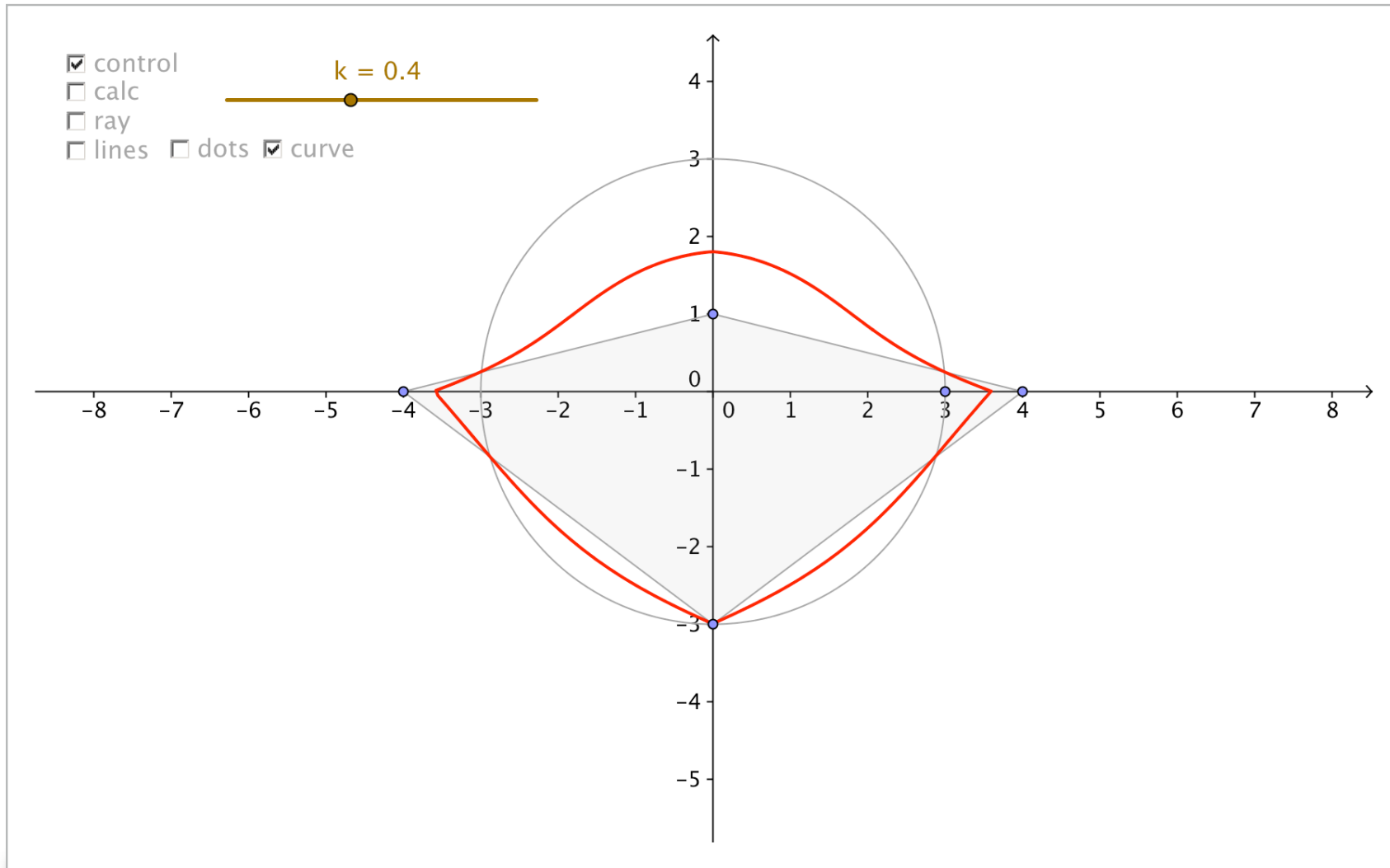
$$P = A + k \cdot (B - A)$$



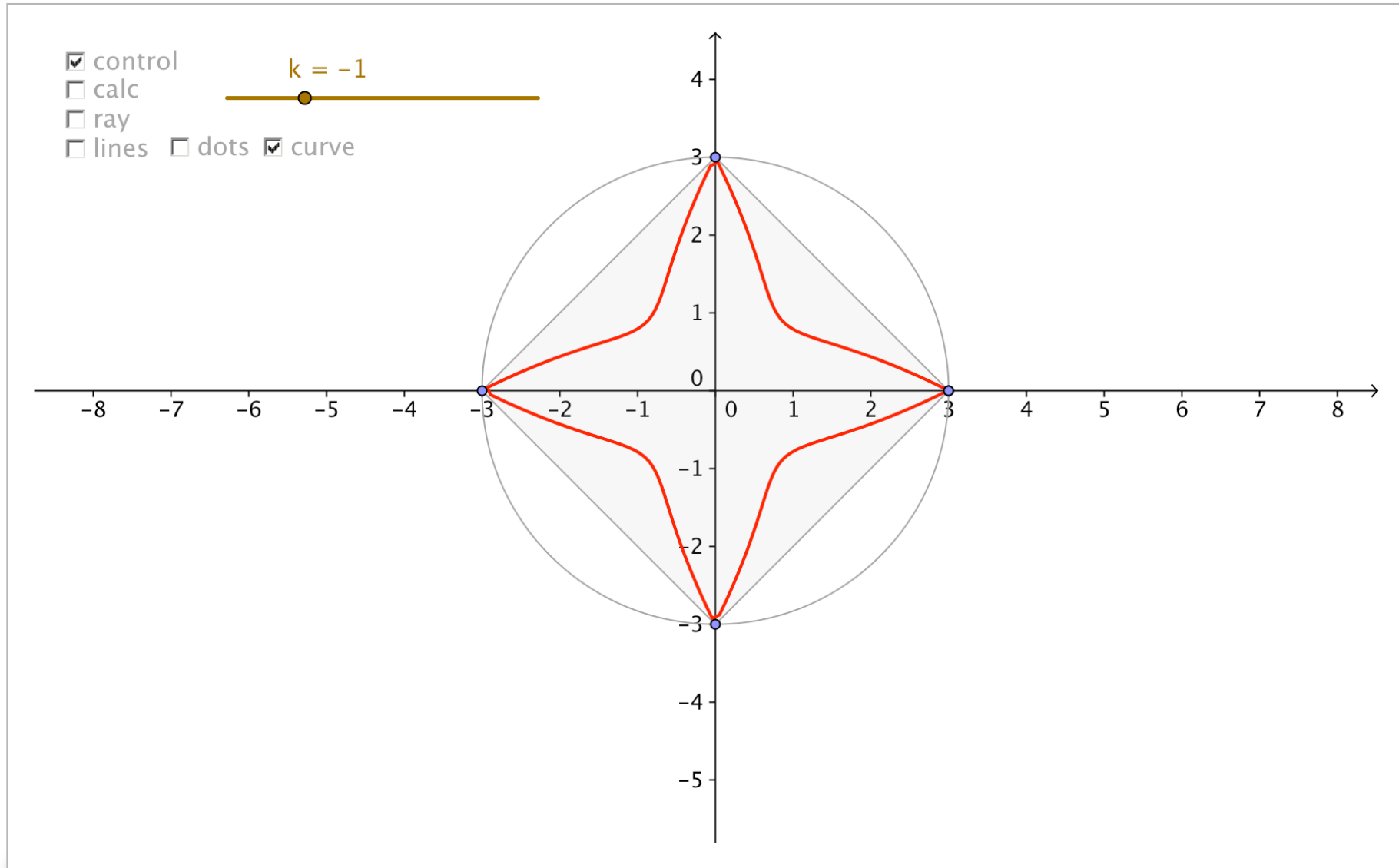
Create a locus of P (based on the movable point A on the square).



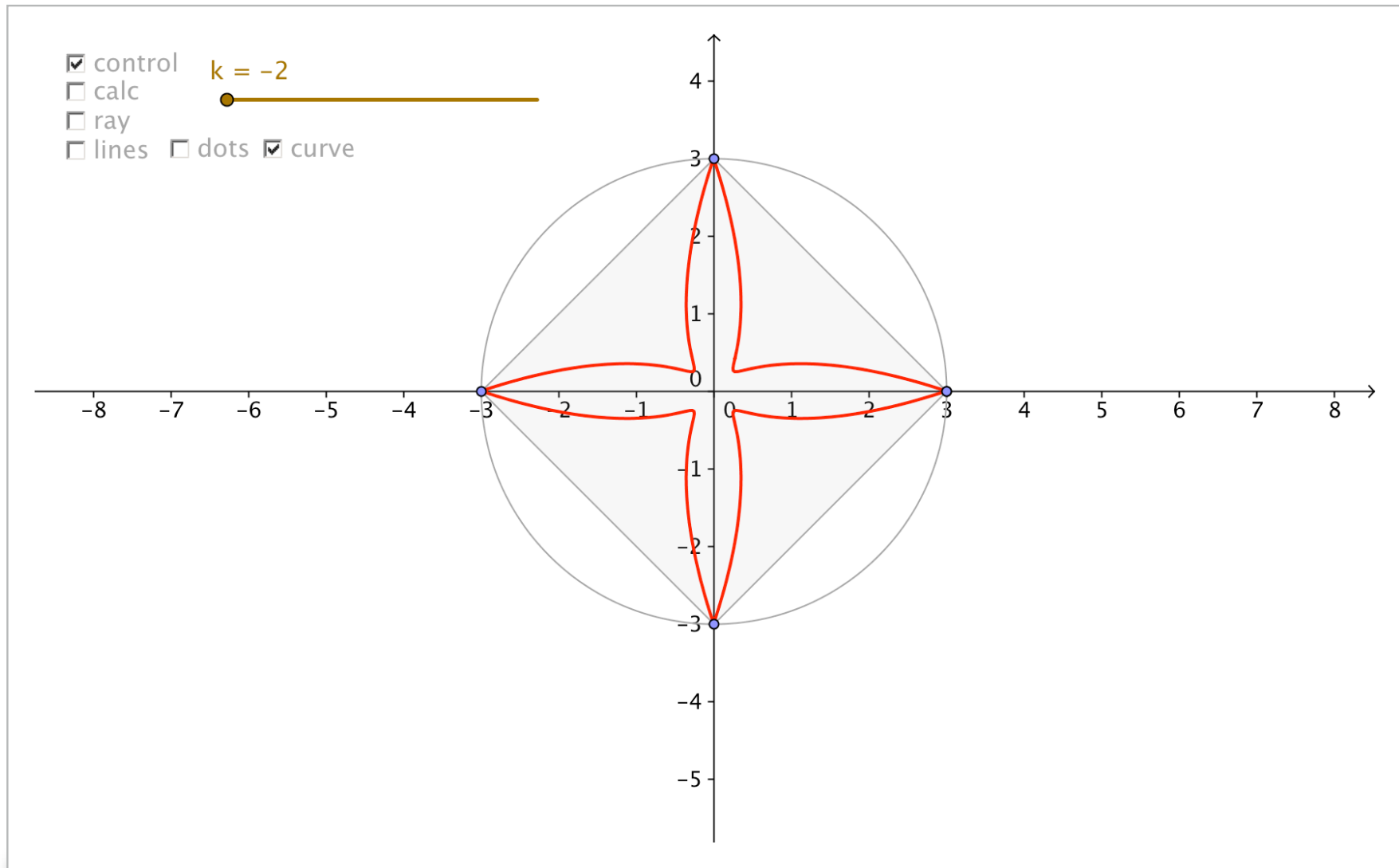
Vary the initial shape (square) and the value of  $k$ .



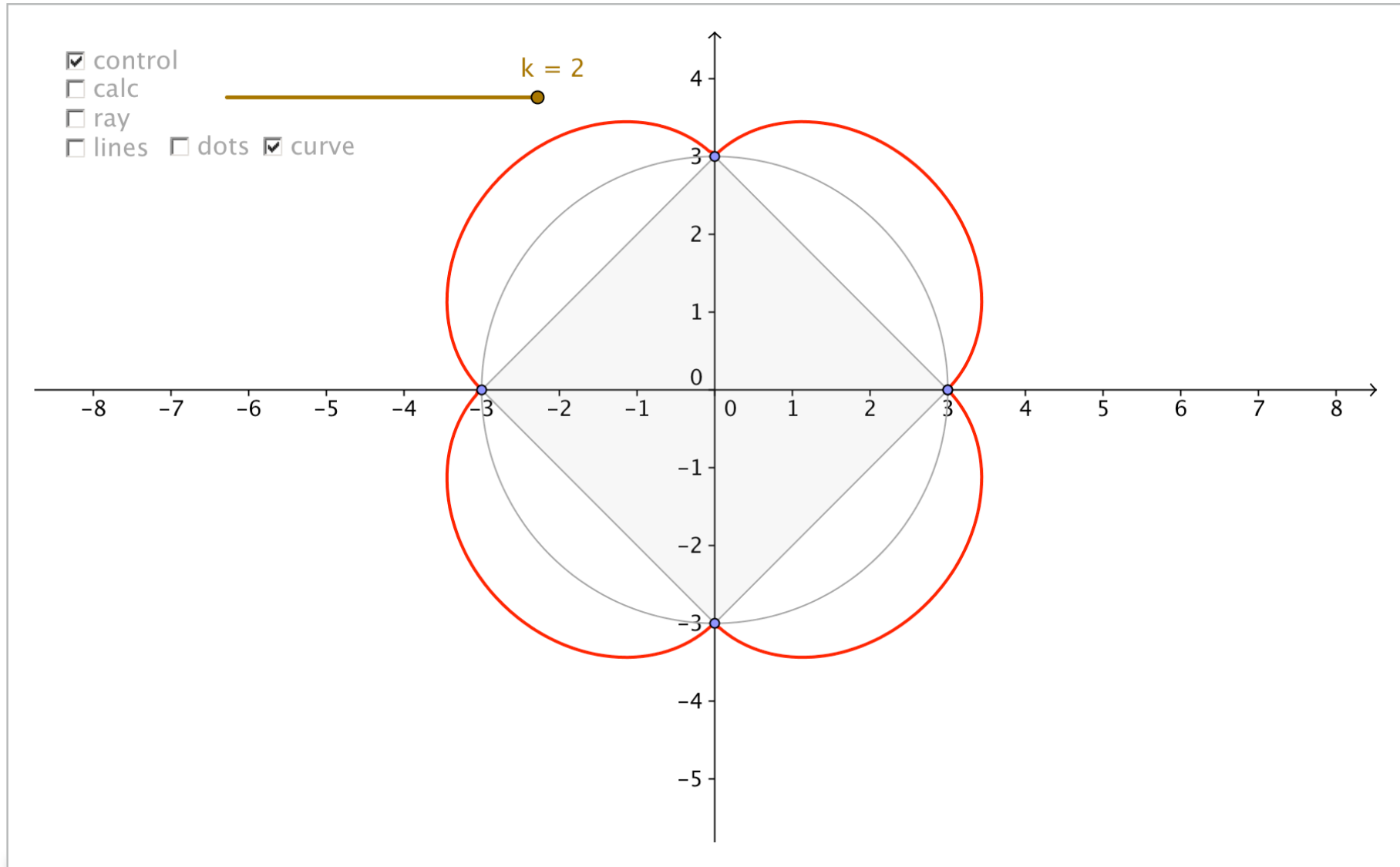
$$k = -1$$



$$k = -2$$



# $k = 2$





$$k = -0.4$$

