UserData: [/XYTK8 0 0 -105 -0.4 1.0 1.0 -75 0.3]

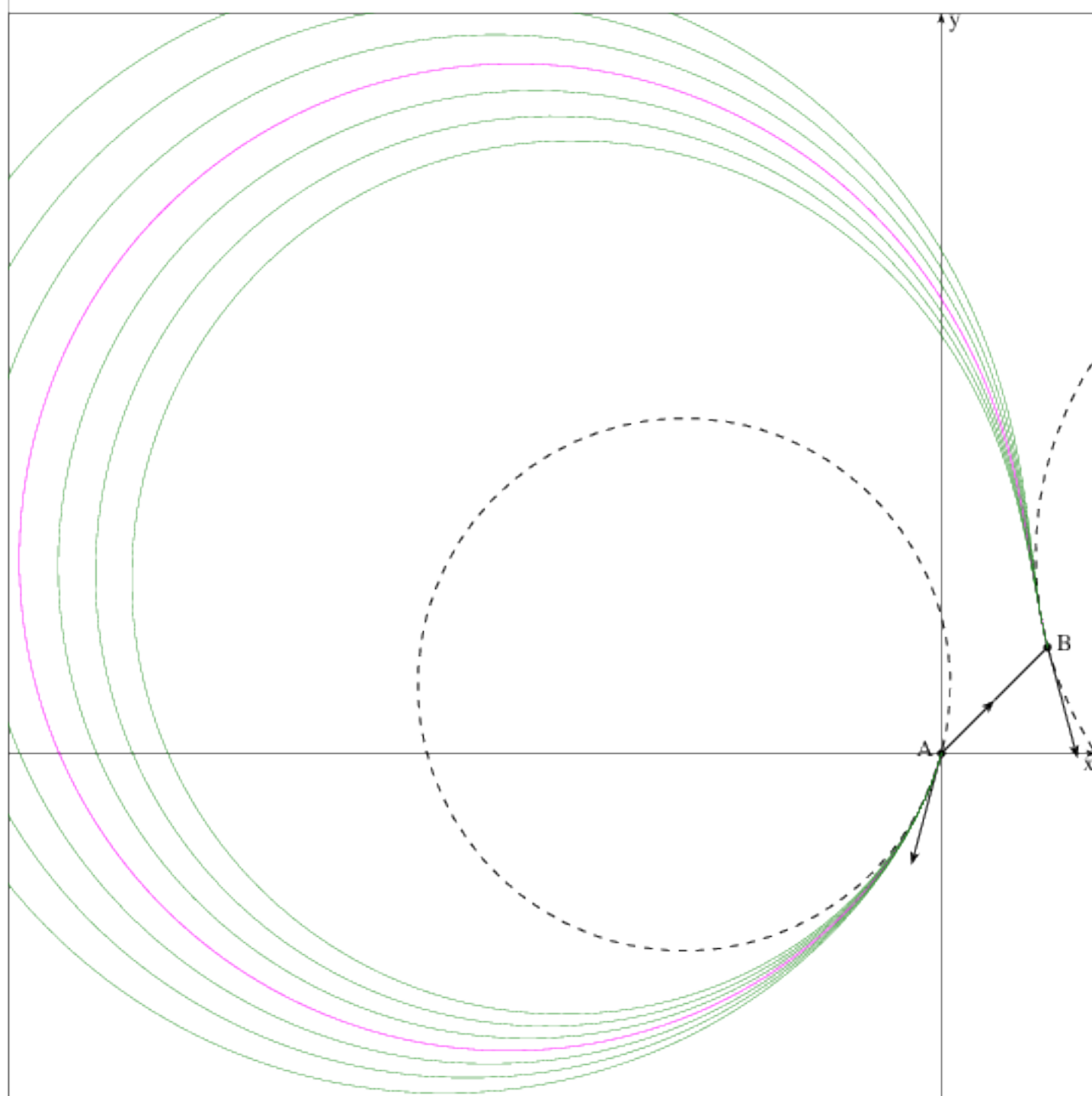$X_1 = 0, \ Y_1 = 0$ $\tau_1 = -105°, \ k_1 = -0.4 \ // \ g_1 = -0.782843$

$X_2 = 1.0, \ Y_2 = 1.0,$ $\tau_2 = -75°, \ k_2 = 0.3 \ // \ g_2 = 1.07816$

$c = 0.707107, \ Q = -0.344028, \ \sigma = 90.0°; \ 7 \ / \ 37$ solutions found

$\Phi = 90°$

All Solutions (7), normalized:
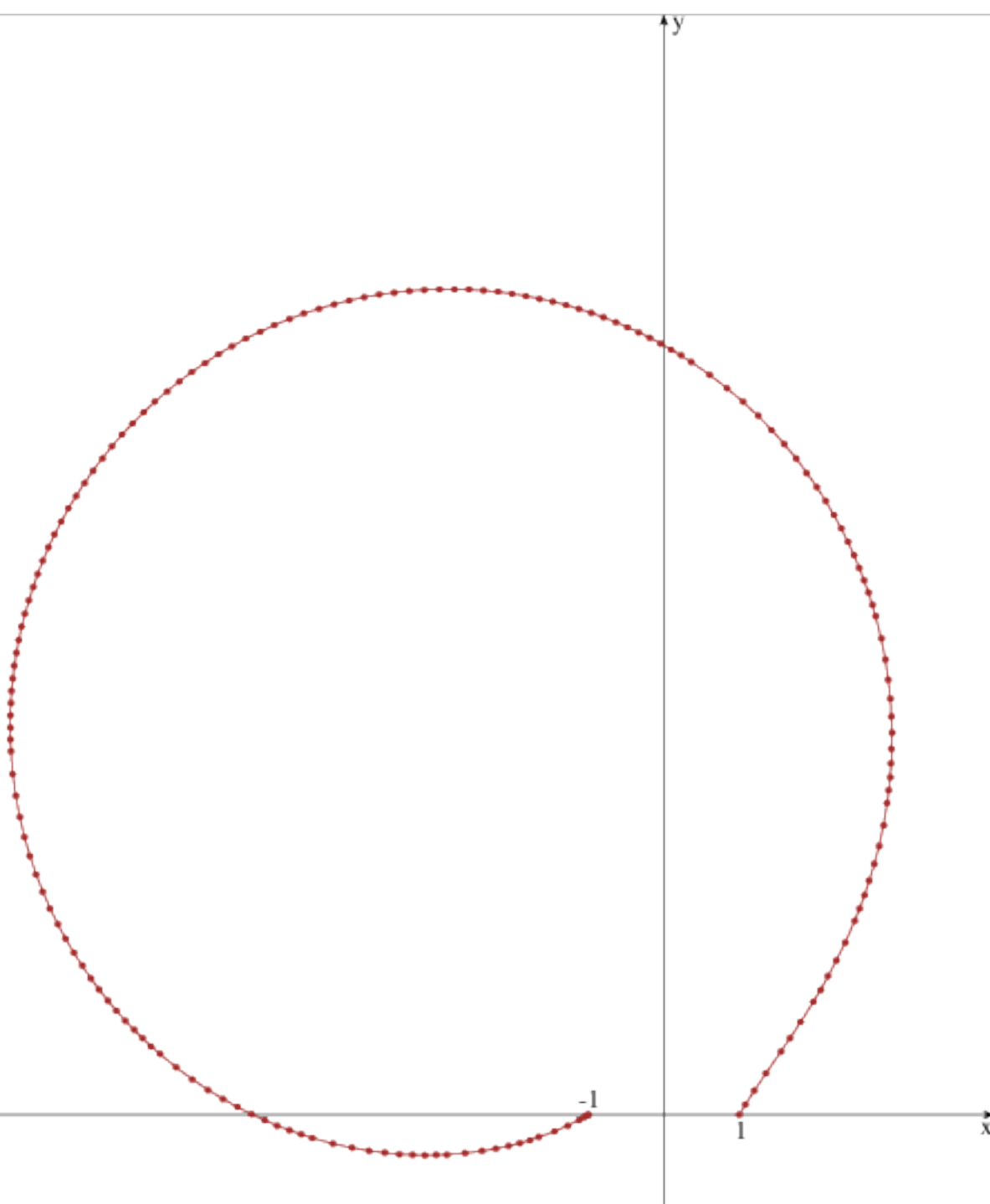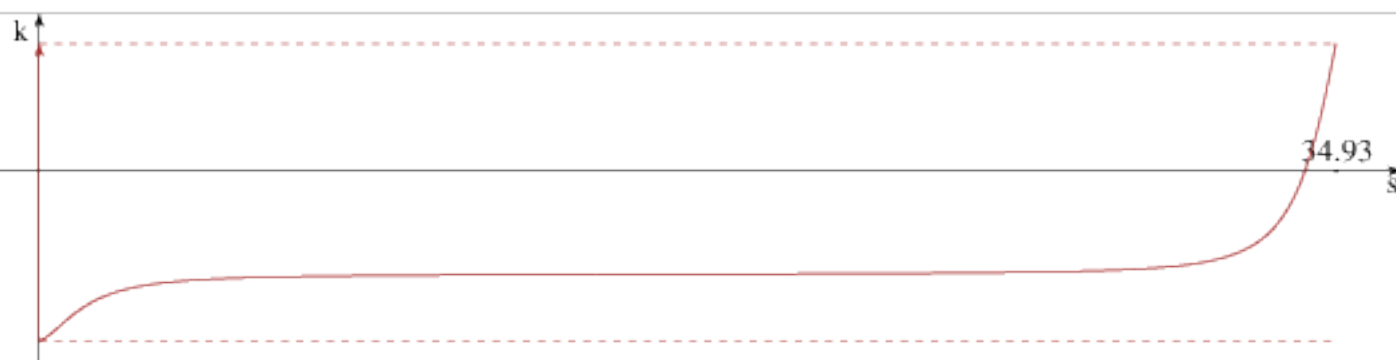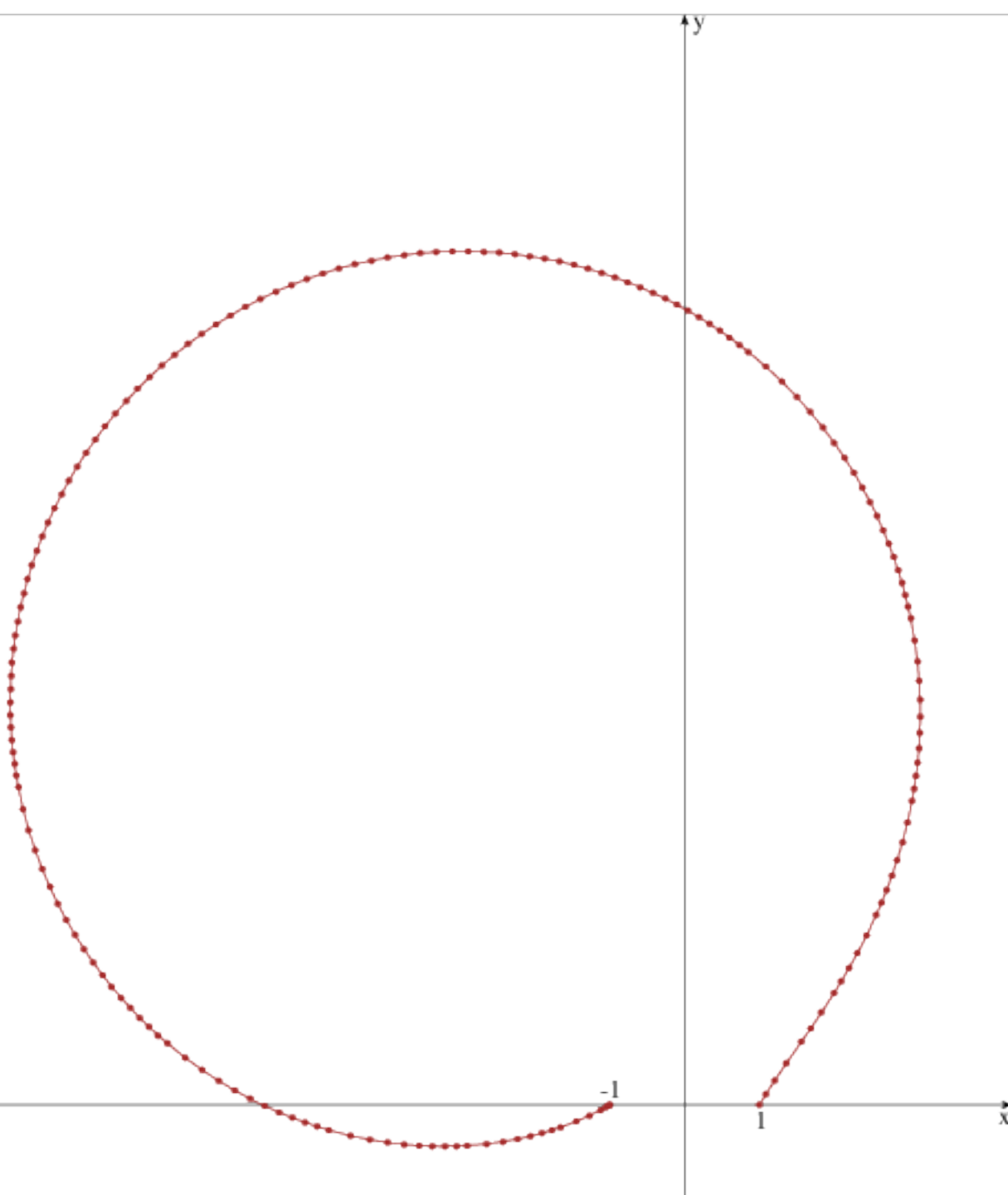
$\alpha = -150.0°$, $\beta = -120.0°$, $\sigma = 90.0°$; $a = -0.282843$, $b = 0.212132$, $Q = -0.344028$
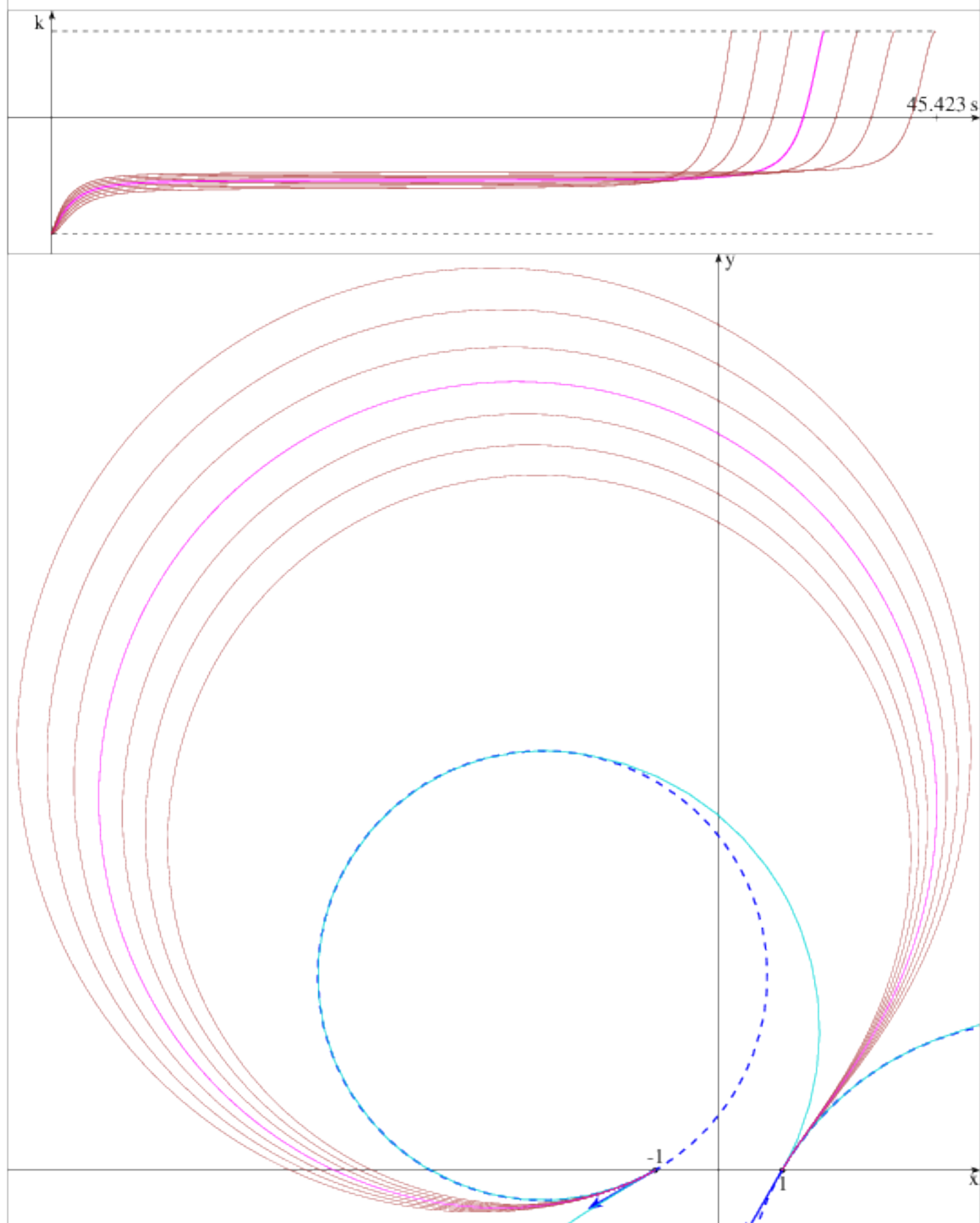
$\alpha = -150.0°$, $\beta = -120.0°$, $\sigma = 90.0°$; $a = -0.282843$, $b = 0.212132$, $Q = -0.344028$

$\phi = -15.0° / \xi = -135.993°/$, $w = 0.332536$, $r_w = -4.52161$, $p = -3.8637$, $q = -3.73205$

$r_0 = 1.42757$, $\lambda_0 = -22.5°$ $L = 34.9285 * 0.707107 = 24.6982$

Solution 2

$\alpha = -150.0°$, $\beta = -120.0°$, $\sigma = 90.0°$; $\qquad$ $a = -0.282843$, $b = 0.212132$, $Q = -0.344028$

$\varphi = -10.0° / \xi = -135.439°/$, $w = 0.223811$, $r_w = -9.98172$, $p = -5.75877$, $q = -5.67128$

$r_0 = 1.33496$, $\lambda_0 = -20.0°$ $\qquad\qquad$ $L = 36.45 * 0.707107 = 25.7741$
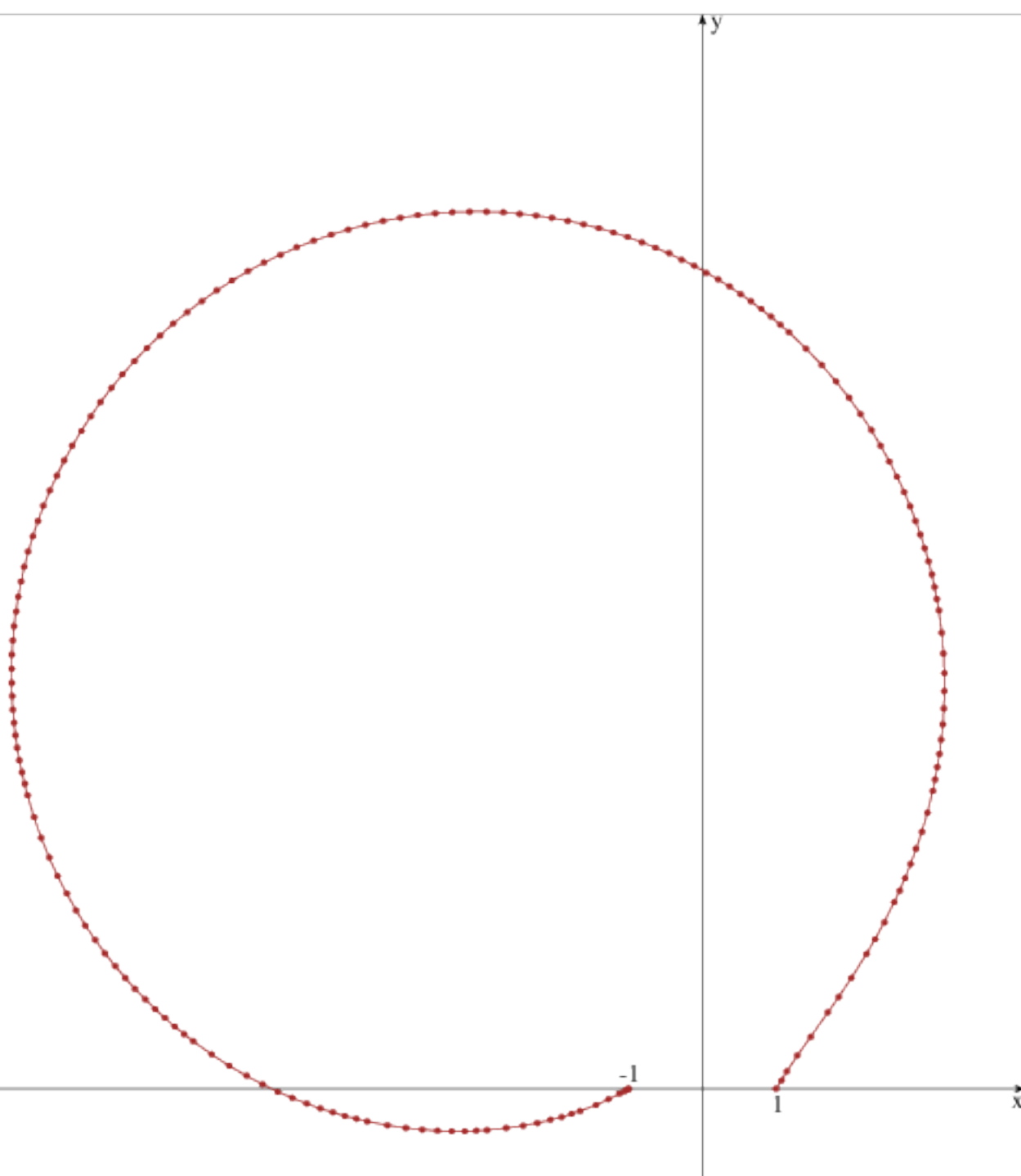
$\alpha = -150.0°, \; \beta = -120.0°, \; \sigma = 90.0°; \qquad a = -0.282843, \; b = 0.212132, \; Q = -0.344028$

$\varphi = -5.0° / \xi = -135.109°/, \; w = 0.112573, \; r_w = -39.4547, \; p = -11.4737, \; q = -11.4301$

$r_0 = 1.251, \; \lambda_0 = -17.5° \qquad\qquad\qquad L = 38.0234 * 0.707107 = 26.8866$
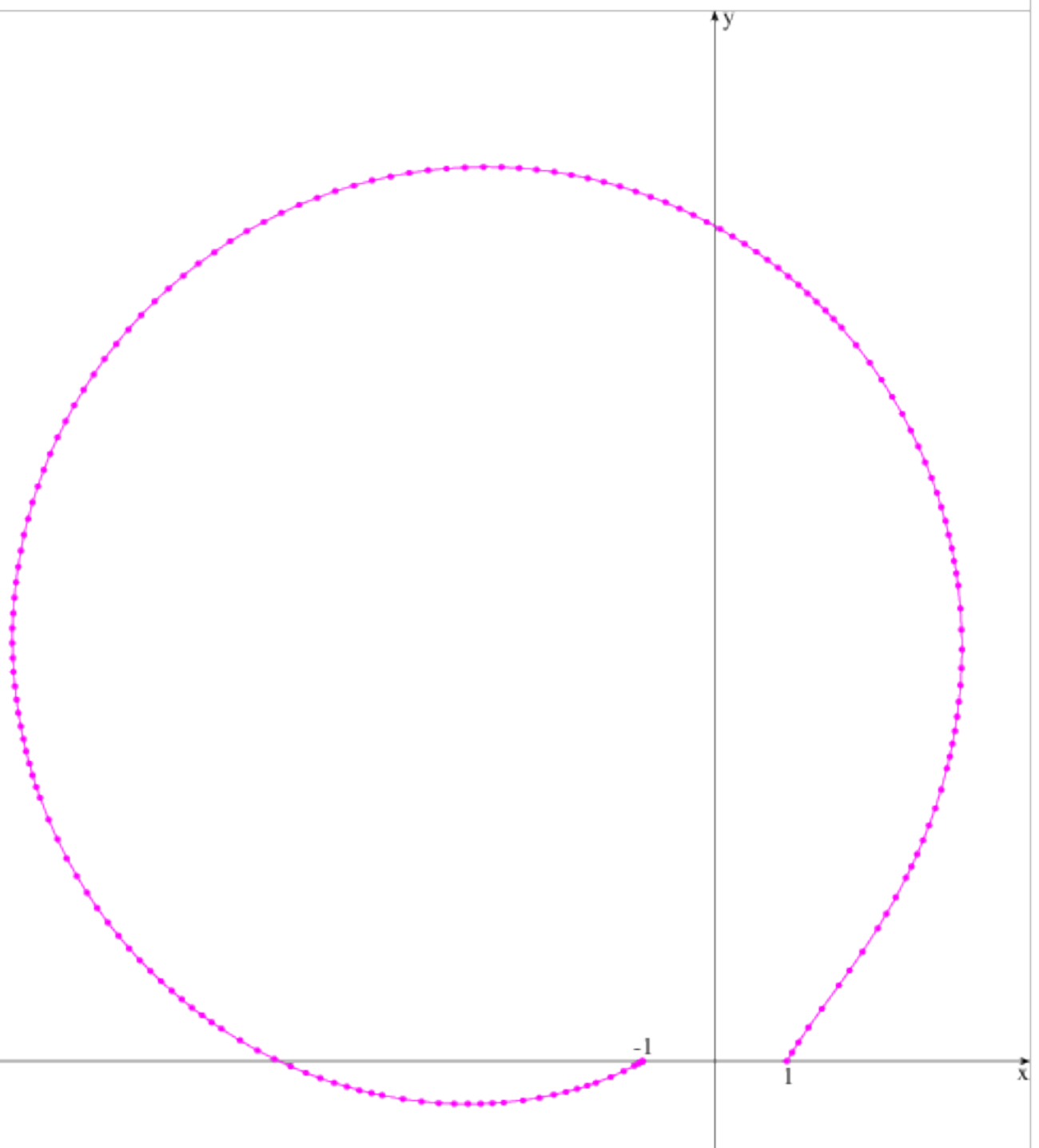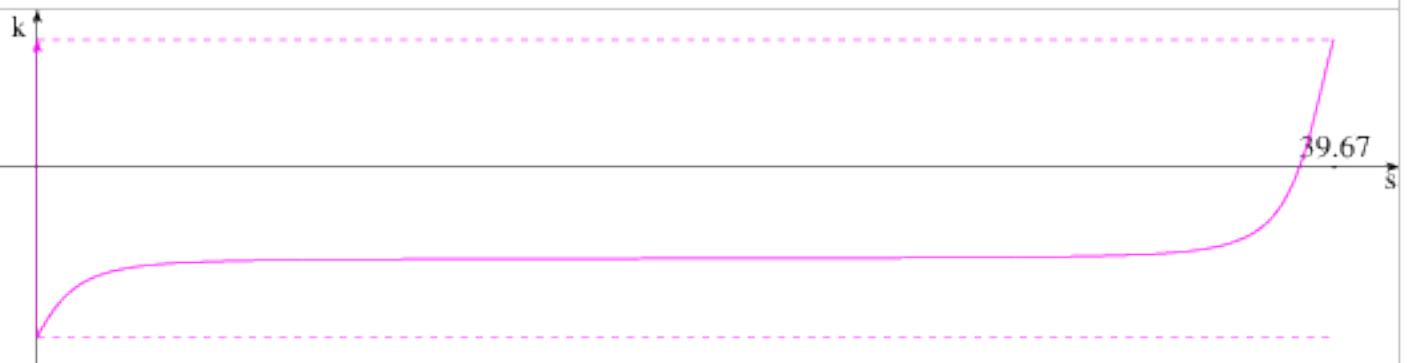
$\alpha = -150.0°, \ \beta = -120.0°, \ \sigma = 90.0°;$ $a = -0.282843, \ b = 0.212132, \ Q = -0.344028$

$\varphi = 0.0° \ / \ \xi = 45.0°/, \ w = 0.0,$

$r_0 = 1.17356, \ \lambda_0 = -15.0°$ $L = 39.6651 * 0.707107 = 28.0475$

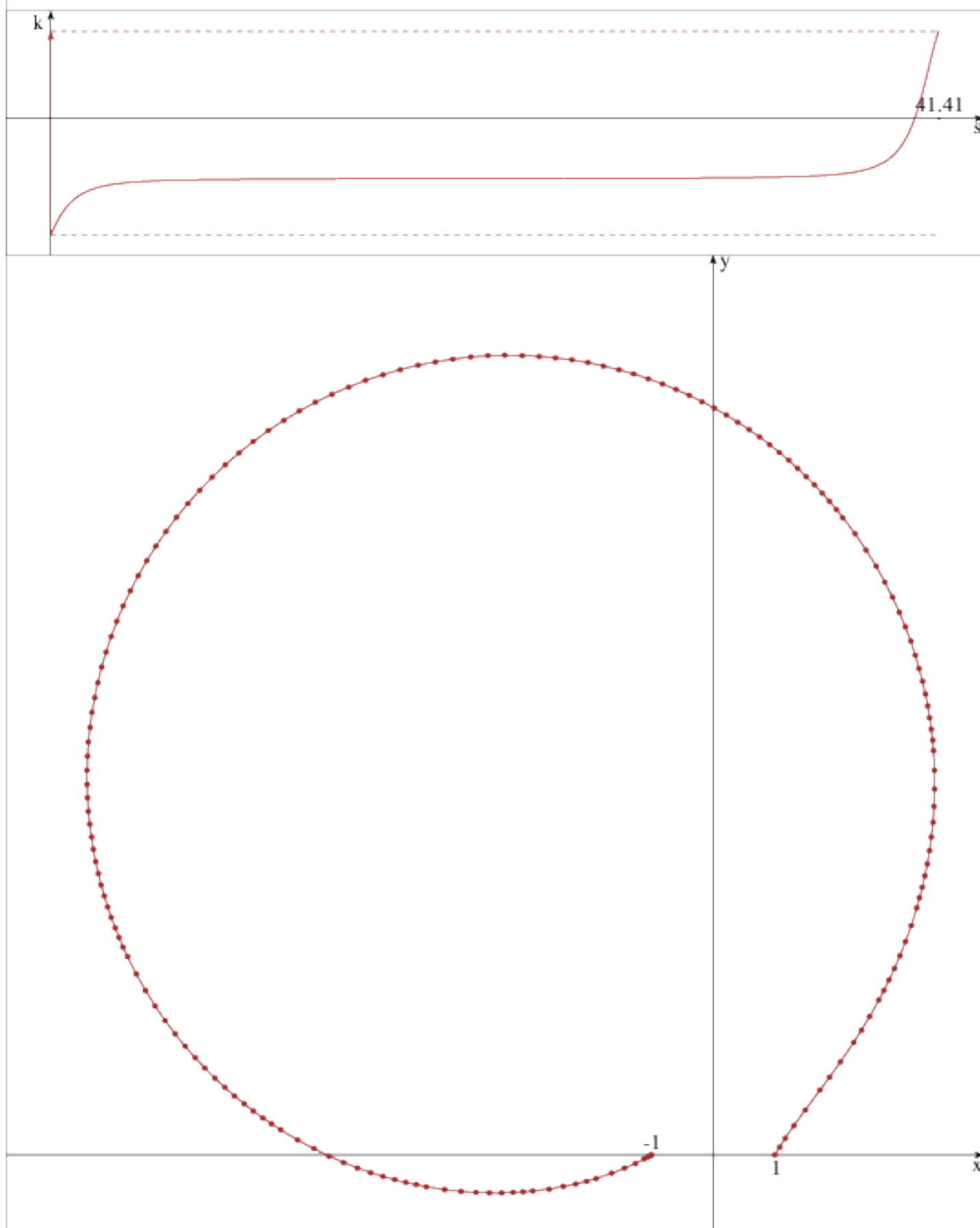$\alpha = -150.0°, \ \beta = -120.0°, \ \sigma = 90.0°; \qquad a = -0.282843, \ b = 0.212132, \ Q = -0.344028$

$\varphi = 5.0° / \xi = 44.8908°/, \ w = -0.112573, \ r_w = -39.4547, \ p = 11.4737, \ q = 11.4301$

$r_0 = 1.1009, \ \lambda_0 = -12.5° \qquad\qquad\qquad L = 41.4141 * 0.707107 = 29.2842$

$\alpha = -150.0°,\ \beta = -120.0°,\ \sigma = 90.0°;$ $\qquad$ $a = -0.282843,\ b = 0.212132,\ Q = -0.344028$

$\varphi = 10.0° / \xi = 44.5615°/,\ w = -0.223811,\ r_w = -9.98172,\ p = 5.75877,\ q = 5.67128$

$r_0 = 1.03167,\ \lambda_0 = -10.0°$ $\qquad\qquad$ $L = 43.3151 * 0.707107 = 30.6284$
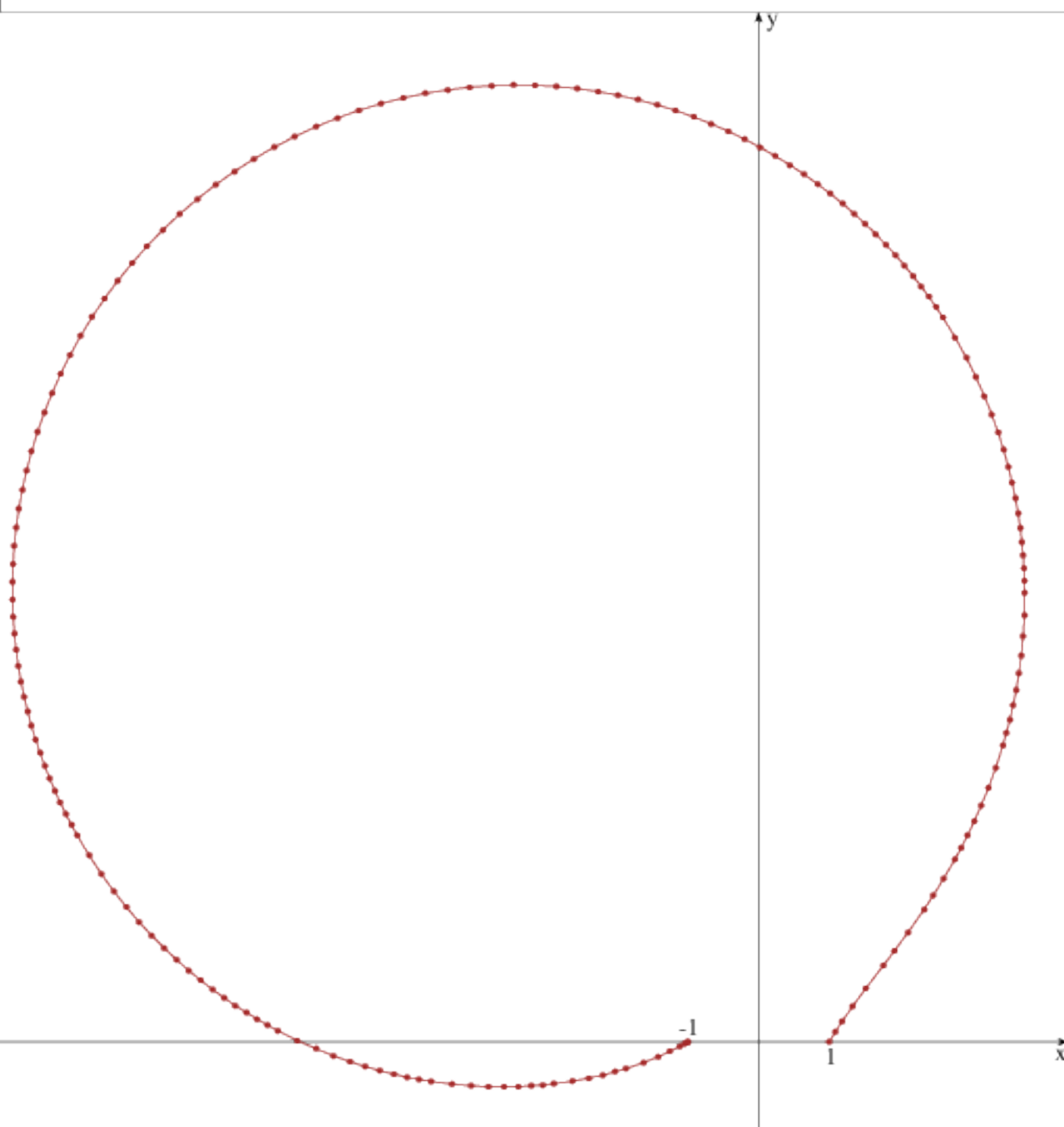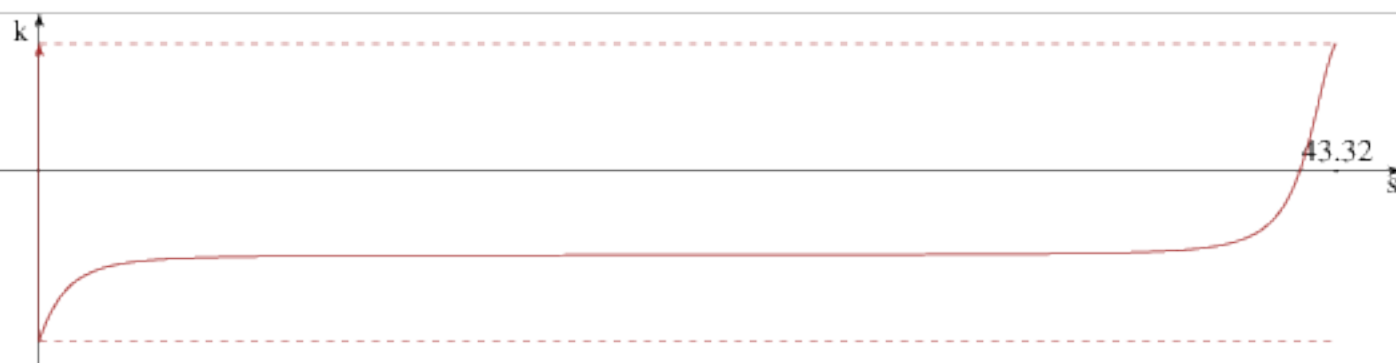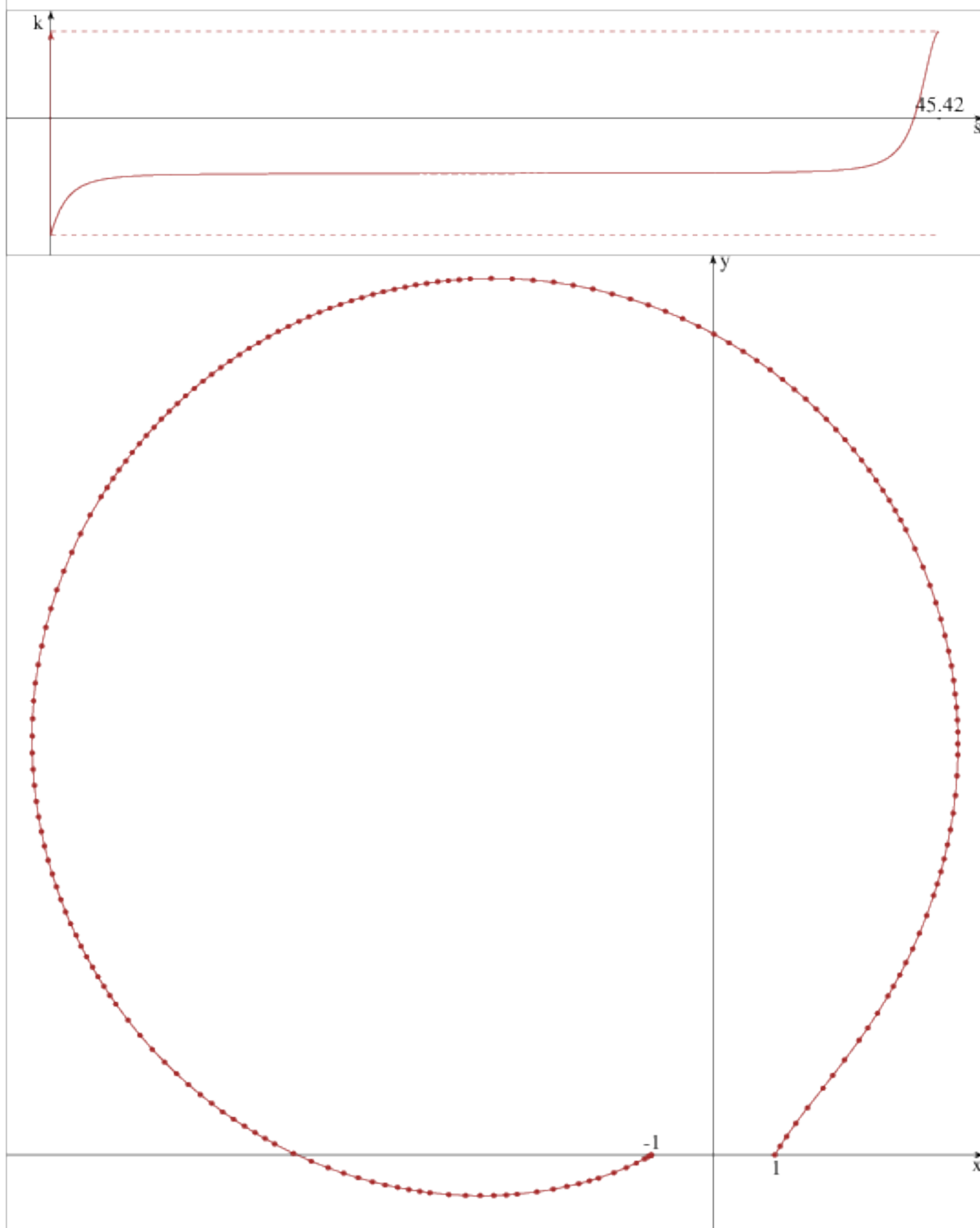
$\alpha = -150.0°, \ \beta = -120.0°, \ \sigma = 90.0°;$ $a = -0.282843, \ b = 0.212132, \ Q = -0.344028$

$\varphi = 15.0° / \xi = 44.007°/, \ w = -0.332536, \ r_w = -4.52161, \ p = 3.8637, \ q = 3.73205$

$r_0 = 0.964738, \ \lambda_0 = -7.5°$ $L = 45.4233 * 0.707107 = 32.1191$

Conic info:

$\alpha = -150.0°, \ \beta = -120.0°, \ \sigma = 90.0°;$

$a = -0.282843, \ b = 0.212132, \ Q = -0.344028$