

along the ‘zero discriminant curve’ as shown in Figure 3. Consider two sample points situated in two different segments that are separated by the curve. The values of the discriminant:

$$(299 - 50x - 30y)^2 - 76 \times 4(36 + 120x - 200y)$$

on the upper left side of the curve, at  $(1, 0)$  is  $14577 > 0$  and on the lower right at  $(3, 0)$  is  $-998183 < 0$ , are of different signs.

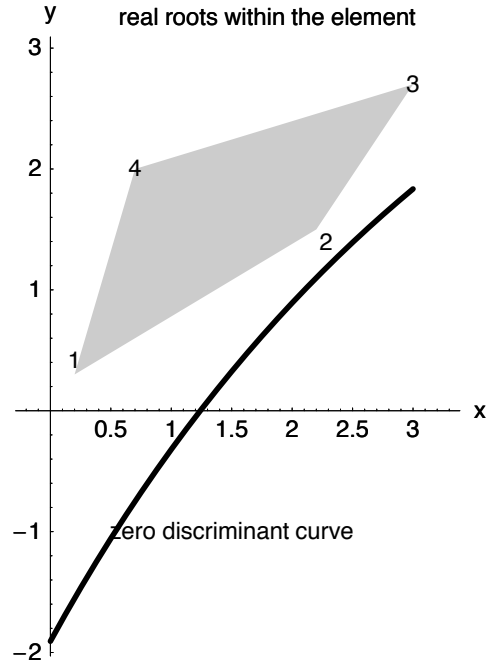


Figure 3: Zero discriminant in the physical coordinates