

Applications of Thin Orbits

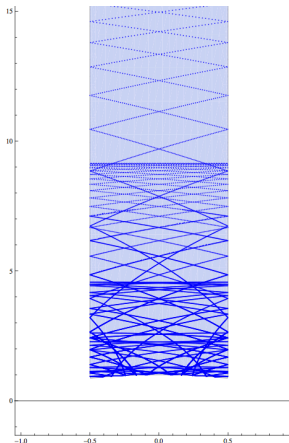
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Example 1: $D = 1337 = 7 \times 191$

$$h_D = 1, \mathcal{C}_D = \{\gamma\}, \gamma = [19, -27, -8], \alpha = \frac{27 + \sqrt{D}}{38}$$

$$\alpha = [1, 1, 2, 17, 1, 8, 5, 8, 1, 17, 2, 1, 1, 3, 1, 35, 1, 3]$$



Example 2: $D = 1365 = 3 \times 5 \times 7 \times 13 (= 37^2 - 4)$

$h_D = 4, \mathcal{C}_D = \{\gamma_1, \dots, \gamma_4\}, \alpha_1 = [1, 35],$

$\alpha_2 = [5, 7], \alpha_3 = [1, 1, 1, 11], \alpha_4 = [1, 1, 1, 2, 1, 2],$

