HW12

① $r_1 \approx 6.87735$, $r_2 \approx 3.32879$, $r_3 \approx 2.57334$, $r_4 \approx 2.46138$

② a) $T := \left[\frac{22+15x+19y}{8+4x+2y}, \frac{4+7x+12y}{13+5x+13y}\right]$

b) $T := \left[\frac{32+9x+15y}{8+2x+4y}, \frac{7+3x+20y}{1+3x+15y}\right]$

c) $T := \left[\frac{32+x+12y}{7+3x+9y}, \frac{9+15x+12y}{19+3x+5y}\right]$

d) $T := \left[\frac{6+5x+19y}{8+4x+5y}, \frac{3+19x+3y}{18+17x+11y}\right]$

③ a) $T := \left[\frac{3+8x+6y+4z}{2+7x+9y+5z}, \frac{9+2x+3y+8z}{4+5x+7y+6z}, \frac{7+4x+9y+3z}{8+6x+2y+5z}\right]$

b) $T := \left[\frac{8+3x+7y+2z}{5+9x+4y+6z}, \frac{6+5x+8y+9z}{7+2x+3y+4z}, \frac{4+7x+6y+5z}{3+8x+9y+2z}\right]$

c) $T := \left[\frac{9+4x+2y+7z}{6+5x+8y+3z}, \frac{7+6x+9y+4z}{8+3x+5y+2z}, \frac{5+8x+7y+6z}{4+2x+9y+3z}\right]$

d) $T := \left[\frac{2+9x+5y+8z}{7+4x+6y+3z}, \frac{4+7x+8y+6z}{9+3x+2y+5z}, \frac{6+5x+4y+7z}{8+2x+9y+3z}\right]$