```
my_R = [0.5363 -0.3020 \ 0.7881; 0.6830 \ 0.7039 -0.1951; -0.4958 \ 0.6429 \ 0.5838]
my_R = 3x3
   0.5363 -0.3020 0.7881
    0.6830 0.7039 -0.1951
   -0.4958 0.6429 0.5838
syms a a alpha; syms b a beta; syms c a gamma;
R1 = [cos(alpha) -sin(alpha) 0; sin(alpha) cos(alpha) 0; 0 0 1];
R2 = [\cos(beta) \ 0 \ \sin(beta); \ 0 \ 1 \ 0; \ -\sin(beta) \ 0 \ \cos(beta)];
R3 = [1 \ 0 \ 0; \ 0 \ \cos(\text{gamma}) \ -\sin(\text{gamma}); \ 0 \ \sin(\text{gamma}) \ \cos(\text{gamma})];
my_R_with_angles = R1*R2*R3
my_R_with_angles =
  \cos(\alpha)\cos(\beta) \quad \cos(\alpha)\sin(\beta)\sin(\gamma) - \cos(\gamma)\sin(\alpha) \quad \sin(\alpha)\sin(\gamma) + \cos(\alpha)\cos(\gamma)\sin(\beta)
  \cos(\beta)\sin(\alpha) \quad \cos(\alpha)\cos(\gamma) + \sin(\alpha)\sin(\beta)\sin(\gamma) \quad \cos(\gamma)\sin(\alpha)\sin(\beta) - \cos(\alpha)\sin(\gamma)
                            \cos(\beta)\sin(\gamma)
                                                               \cos(\beta)\cos(\gamma)
     -\sin(\beta)
B = solve(-sin(beta) == my_R(3,1));
b1 = double(B(1))
b1 = 0.5188
b1_A = solve(cos(alpha)*cos(b1) == my_R(1,1));
b1_a1 = double(b1_A(1))
b1_a1 = 0.9052
b1_G = solve(cos(b1)*sin(gamma) == my_R(3,2));
b1_g1 = double(b1_G(1))
b1_g1 = 0.8335
```