```
function [theta3_deg, theta4_deg, xp, yp] = four_bar_func(angles, lengths, p)

theta3 = angles(3);
theta4 = angles(4);

% theta3 = 0*pi/180;
% theta4 = 10*pi/180;

angles_0 = [theta3 theta4];

[unknownAngles] = fsolve(@four_bar_equations, angles_0, [], angles, lengths);

theta3 = unknownAngles(1);
theta4 = unknownAngles(2);

xp = lengths(2)*cos(deg2rad(angles(2))) + p(1)*cos(theta3);
yp = lengths(2)*sin(deg2rad(angles(2))) + p(2)*sin(theta3);

theta3_deg = rad2deg(theta3);
theta4_deg = rad2deg(theta4);

end
```