

```

function [r,v] = oe2rv(mu,a,e,i,raan,ta,argp)

    p = a*(1-e^2);

    X = ['If given angle related to singularities, put in input 7 (argp).'];
    disp(X);

    if e <= 0 && i <= 0
        r = p*[cos(argp) sin(argp) 0]';
        v = sqrt(mu/p)*[-sin(argp) cos(argp) 0]';

    elseif e <= 0
        rpqw = p*[cos(argp) sin(argp) 0]';
        vpqw = sqrt(mu/p)*[-sin(argp) cos(argp) 0]';

        Q = R3(-raan)*R1(-i);
        r = Q*rpqw;
        v = Q*vpqw;

    elseif i <= 0
        rpqw = p*[cos(ta) sin(ta) 0]';
        vpqw = sqrt(mu/p)*[-sin(ta) cos(ta) 0]';

        Q = R1(i)*R3(-argp);
        r = Q*rpqw;
        v = Q*vpqw;

    else

        rpqw = (p/(1+e*cos(ta)))*[cos(ta) sin(ta) 0]';
        vpqw = sqrt(mu/p)*[-sin(ta) e*cos(ta) 0]';

        Q = R3(-raan)*R1(-i)*R3(-argp);

        r = Q*rpqw;
        v = Q*vpqw;
    end
end

```

Not enough input arguments.

Error in oe2rv (line 3)

p = a*(1-e^2);

