```matlab
function lect3_7
```

```matlab
close all;clc

q = [0.661 -0.161 -0.508 0.529]';
mag_rad = 2*acos(q(1));
mag_deg = rad2deg(mag_rad)
v = q(2:4)/sin(mag_rad/2)
```

```
mag_deg =
          97.2476337291378
v =
        -0.214556270107726
        -0.676985001333693
         0.704970601782527
```

```matlab
end
```

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