**v2M\_Mars**

***Calling Syntax***

M = v2M\_Mars(v,a)

***Description***

The function v2M\_Mars converts descent speed, v [ m/s ] to the absolute value Mach number on Mars as a function of altitude, a [ m ].

(Based on data obtained at http://www.aerospaceweb.org/question/atmosphere/q0249.html)

***Input Arguments***

v vector Nx1 element vector of velocities

a vector Nx1 element vector of altitudes above Mars surface

***Output Arguments***

M vector Nx1 element vector of Mach numbers