From your textbook, page 149, Section 2.7 Question 14.

If a rock is thrown upward on the planet Mars with the velocity of 10 m/s, its height (in meters) after $t$ seconds is given by $H = 10t - 1.86t^2$.

(a) Find the velocity of the rock after one second.

(b) Find the velocity of the rock when $t = a$.

(c) When will the rock hit the surface.

(d) With what velocity will the rock hit the surface.