21. A force with magnitude 20 N acts directly upward from the xy-plane on an object with mass 4 kg. The object starts at the origin with initial velocity $\mathbf{v}(0) = \mathbf{i} - \mathbf{j}$. Find its position function and its speed at time t. F= <0,0,20> m=4kg 9=<0,0,2> V=<1,-1,0> V= Sadt =< 1/25, 1/24, 52+1/202>=<1,-1,5t> 「= [vdt=< t+rox, +roy, ミセ* +roz> ((f)こく+,-+, ミセン> S(+) = | V(+) = |<1,-1, 5+>| =,125t2+2







