Let’s Talk!!!! Group Practice. ☺ Come to the nerd side. We have pi

1. If a rock is thrown upward on Mars (not from the ground), its height (in meters) after t seconds is given by h(t) = 5+10t − 1.86t 2 . With what velocity will the rock hit the ground?
2. Find the average rate of change over the interval, and the instantaneous rate of change at the lower bound of the given interval. Round to three decimals if necessary.

y =$\frac{1}{(x+3)^{2}}$ [-2, 2]

1. 



1. The length of a rectangle is given by 6t+5 and its height is $\sqrt{t}$, where t is the time in seconds and the dimensions are in centimeters. Find the rate of change of area with respect to time at t = 2.5 sec.
2. Find the equations of the tangent lines to the graph of $f\left(x\right)= \frac{x+1}{x-1}$ that are parallel to the line 2y +x =6.