

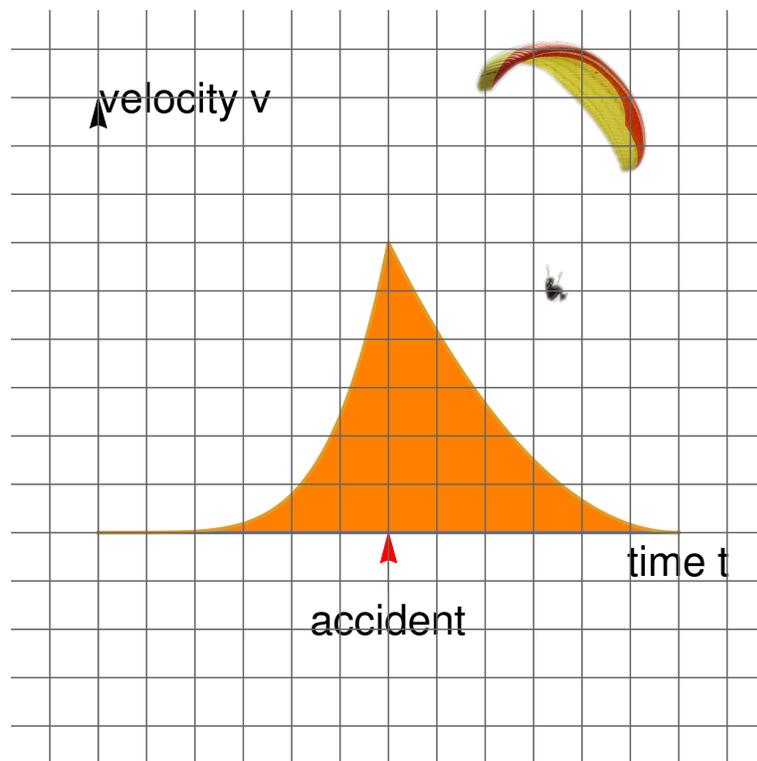
INTRODUCTION TO CALCULUS

MATH 1A

UNIT 27: WORKSHEET

Numerical integration

1: A paraglider starts a flight in the mountain and flies for 12 seconds (the grid spacing is one seconds). The height velocity $v(t)$ in meters per second is given as a graph. At $t = 6$, one of the wings folds over and the velocity decreases. The integral $H = \int_0^{12} v(t) dt$ is the total height gain during that time. Do your best using a numerical method to compute an estimate of H .



Try to use a trapezoid rule.