3	A two seater bicycle is rolling down a Jom Will.
	halfway down the hill, one of the passengers falls oft the bike. Determine the velocity at the bottom of the hill if the bike has a mass Isty and each passenger has
	a mass 70/kg.
7	State 1: mgh
	State 2: mgh + zmz.
- h	State 3: 1 mv3
	- 56 V2
	$mgh = \frac{mgh}{2} + \frac{1}{2}mv_2^2$ $V_2 = \frac{mgh}{2} \times \frac{2}{m} - \frac{1}{2}gh = 17.13^n$
	$M_{\Lambda} = M_{\Lambda}$
	m; = 70x2+15 = 155 mgh + 1 m 42 = 1 m vg2
	$w_1 = 85$ $v_1 = v_2 = 12.13 \text{Mz}$ $v_3 = 25.777 \text{Mz}$
	vf = 27.119 mg