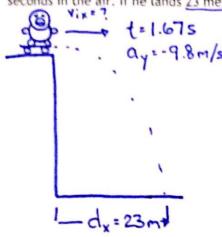
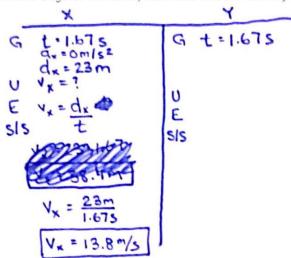
1. A giraffe is wearing leg warmers and rollerblades as he approaches the edge of a cliff. If he rolls off horizontally at 7 m/s, fill in the following table for the giraffe's motion in the next five seconds.

	-	
Va E	7~	
-		

Time	V _x	ΔX	V.	AY
0 sec	7	Ò	O	Ō
1 sec	7	7	-9.8	= 4.7
2 sec	7	14	- 17.6	-17.6
3 sec	7	21	-27.4	-44.1
4 sec	7	28	-34.2	1.81
5 sec	7	35	- 49	-122.5

2. A large bear wearing undersized clothing is riding a skateboard. He rolls horizontally off of a cliff and spends 1.67 seconds in the air. If he lands 23 meters from the edge of this cliff, how fast was he initially moving?





3. A small platypus is wearing gold chains and saggy jeans. If he bowls a bowling ball horizontally off a 14m cliff, and notes that the ball lands 20 meters from the base of the cliff, how long did the bowling ball spend in the air?

$$\frac{x}{G \, dx = 20m} \qquad G \, dy = -14m$$

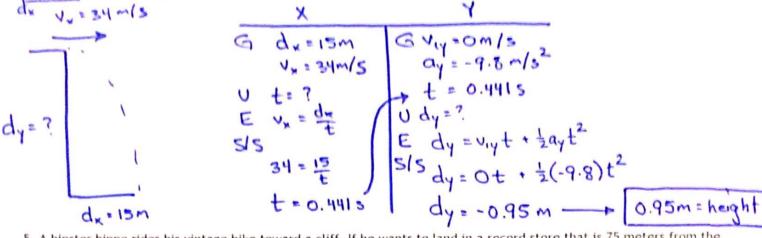
$$ay = -9.8 \, m/s^2$$

$$v_{1y} = 0 \, m/s$$

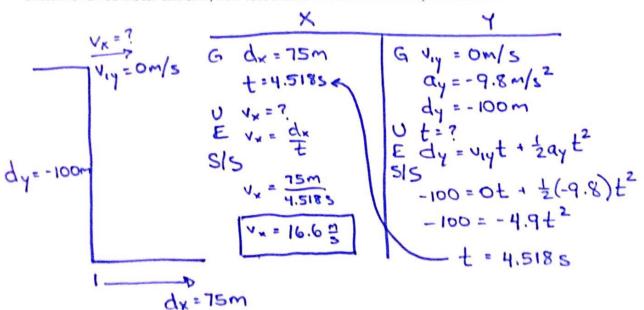
$$v_{2y} = 0 \, m/s$$

$$v_{3y} = 0$$

4. A snooty owl drives his fancy car while texting. If he drives horizontally off a cliff at 34 meters per second, and lands 15 meters from the base, how tall was the cliff that he drove off of?



5. A hipster hippo rides his vintage bike toward a cliff. If he wants to land in a record store that is 75 meters from the bottom of a 100 meter tall cliff, how fast should he ride horizontally off the cliff?



6. A turtle riding a tank is driving toward a horizontal cliff at 12 m/s. How high should the cliff be if the turtle wants to

