Algeb	ra 2	Name:	
Projectile Practice Worksheet #2		Date:	_ Block:
Directions: Give a sketch representing each situation. The, create a function and answer each question.			
1)	A rock is dropped form a 100 foot tower. How long does it to ground?	ke for the rock to rec	ach the
2)	An outfielder throws a baseball upward at an initial velocity the ball 6ft above the ground. What is the ball's maximum a the ball to reach its maximum height?		
3)	Jason jumped off of a cliff into the ocean in Acapulco while The height of the cliff is 480 feet and his initial upward velocit take Jason to reach his maximum height? What is the maxim the water?	y is 16 ft/sec. How lo	ng does it

4) A rock is throw upward from the surface of Mars with an initial velocity of 50 feet per second. The downward gravitational pull is -6.5 on Mars. How long does it take for the rock to reach 123 feet? How long does it take for the rock to come back down to Mars?

5)	A golf ball is hit from the ground upward with an initial velocity of 82 ft/sec. There are a group of 10 foot trees in the ball's path. Will the ball be able to go over the trees? If so, how long does it take for the ball too hit the ground?
6)	A toy rocket is launched vertically upward from ground level with an initial velocity of 128 feet per second. How long will it take for the rocket to return to the ground? For how many seconds will the rocket be at least 112 feet above the ground? How long will it take the rocket to hit its maximum height? What is the maximum height?