



#13 The diagram below shows a jackrabbit jumping over a three-foot-high fence. To just clear the fence, the rabbit must start its jump at a point four feet from the fence.	#14 The jackrabbit is jumping along and encounters a brick wall that is 2.5 feet high and 1 foot wide. Can he clear the wall if his jump is the same height and width as in problem #13?
Sketch:	Sketch:
Equation:	Work:
Explain how you know your sketch and equation fit the situation.	Will the rabbit be able to clear the wall?

#15 When Ms. Bibbi kicked a soccer ball, it traveled a horizontal distance of 150 feet and reached a height of 100 feet at its highest point.	#16 At the skateboard park, the hot new attraction is the <i>U-Dip</i> , a cement structure embedded into the ground. The cross-sectional view of the <i>U-Dip</i> is a parabola that dips 15 feet below the ground. The width at ground level, its widest part, is 40 feet across. Sketch the cross-sectional view of the <i>U-Dip</i> , and find an equation of the parabola that models it.
Sketch:	Sketch:
Equation:	
	Equation:
How far (horizontally) is the ball from Ms. Bibbi when it is 25 feet high?	