- A FALLING BODY PROBLEM -

A heavy object is dropped from an airplane flying at a great height. Suppose the relationship between the distance fallen in feet and the time falling in seconds is given in the table below. Show how to determine a rule expressing the distance fallen as a function of the time falling.

Time	Time	Distance	Distance	Average	Speed	Average
Increment	(sec)	(feet)	Increment	Speed	Increment	Acceleration
(sec)			(feet)	(feet/sec)	(feet/sec)	(feet/sec/sec)
	5	400				
	10	1600				
	15	3600				
	20	6400				
	25	10000				
	30	14400				

