

Name _____ # _____ Date _____
 Section _____ Regents Physics

Reference Table
 Open Book Relationship Questions

I. Direct square relationships (3 points each)

Find **six** equations *anywhere* on your physics reference table that have a **direct square relationship** and then list the variables within the equations that have the direct square relationship.

Equation with a direct square	Variables with the direct square
1. $KE = 1/2 mv^2$ (example)	KE and v
2.	
3.	
4.	
5.	
6.	
7.	

II. Inverse square relationships (3 points each)

Find two equations *anywhere* on your physics reference table that have an **inverse square relationship** and then list the variables within the equations that have the inverse square relationship.





Equation with a inverse square relationship	Variables with the inverse square relationship
1.	
2.	

III. Inverse relationship (3 points each)

Find sixteen equations *anywhere* on your physics reference table that have an **inverse relationship** and then list the variables within the equations that have the inverse relationship.

Equation with a inverse relationship	Variables with the inverse relationship
1. $P = W/\Delta t$	P and t
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	

IV. Sketch the shape of the plot of each relationship listed below**(3 points each)**

a) direct relationship 	b) direct square relationship 
c) inverse relationship 	d) inverse square relationship 

(3 points each)

If you double one variable in a direct relationship the other variable will

If you double one variable in a direct square relationship the other variable will

If you double one variable in an inverse relationship the other variable will

If you double one variable in an inverse square relationship the other variable will

Find an equation on your reference table that has a direct, direct square and an inverse relationship (**Seven points**)