Light Fields

1.	Ple	nor	tic	Fun	ction

1.	Plenoptic Function					
	a.	The plenoptic function is typically described as having 5 parameterswhat are these parameters?				
	b.	What value is returned by the plenoptic function?				
2.	Light a.	Fields A light field is typically described as a function having 4 parameterswhat are these parameters?				
	b.	What value is returned by a light field?				
	c.	Why is it possible to only use 4 parameters and yet have the function cover an entire volume of free space like a hallway?				
	d.	One can think of a light a field as a 2D array of				

3. Compression

The Steam app Welcome to Light Fields by Google uses real-time decompression to render the light field.

a. What way of organizing the data makes real-time decompression and rendering possible?

b. Describe the data access pattern that occurs when rendering an image from a light field. How does this access pattern work with the compressed data structure to make real-time rendering possible?