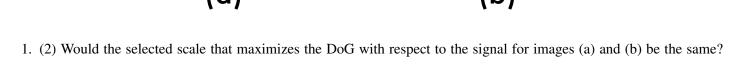
			, 33		
Name:					
UNIQNAME#:	3	2	5	10	
Directions – The quiz is closed book/notes. You have 10 minu	tes to co	mplete	it; use	this paper	r only.
Problem 1: Recall (3pts) (Fill in the blanks).)					
The Phong shading model differs from the Lambertian model	in two w	vays: _			_ and
Solution: Ambient lighting and specular lighting.					
Problem 2: Recall (2 pts) (Fill in the blank.)					
In the context of scale-space, define the characteristic scale as	the scale	e that _			_ of the Laplacian response.
Solution: produces the peak					
Problem 3: Comprehension (5 pts)					
Consider the two images (a) and (b) below and a dense discret	te scale-s	space ba	ased on	the DoG	operator.



2. (1) The DoG / SIFT description mechanism is based on finding the dominant direction of the gradient of the direction. This leads to rotation invariance. Can these two images have the same dominant gradient direction?

3. (1) Is it always the same dominant direction for these two images?

4. (1) What is an extension of these ideas to have these two images always yield the same descriptor?

Solution:

No, Yes, No, Compute the Affine Frame (instead of just the dominant rotation).