Quiz #10 - The last one ☺

Directions: Carefully read each question below and answer to the best of your ability in the space provided. Your answer to problems should be written in a clear and concise manner.
You **MUST** show your work to receive full credit!

1. (3 points) Use the properties of limits to calculate the following limits:

   (a) $\displaystyle\lim_{(x,y)\to(1,-2)} 3xy + y^2 =$

   (b) $\displaystyle\lim_{(x,y)\to(-1,1)} \left(4y^2 + 2x\right)(3xy - 5) =$

   (c) $\displaystyle\lim_{(x,y)\to(1,1)} \frac{2x^2 + y}{2xy + 3} =$

2. (7 points) Compute the following limit, if it exists:

$$\lim_{(x,y)\to(0,0)} \frac{3x^2y^2}{x^3 + y^6}$$

Name: _____

Section (circle one):   001   002

Question:	1	2	Total
Points:	3	7	10
Score:			