Complete each part on the designated day in your Study Guide Packet.

Problems must be written out, numbered, show work, and have final answer boxed for credit.

**Part 3**

1. State whether the following are polynomials; if they are, what type of polynomial is it?
	1. $4by+2b-by$
	2. $-32$
	3. $5x^{2}-3x^{-4}$
	4. $\frac{1}{8x^{2}}+5x-8$
2. Put the following in ascending order (according to x):
	1. $7rx^{5}+21r^{4}-r^{2}x^{2}-15x^{3}$
	2. $9x^{2}+2+x^{3}+x$
3. Put the following in descending order (according to x):
	1. $x-3x^{2}+4+5x^{3}$
	2. $2cx+32-c^{3}x^{2}+6x^{3}$
4. Simplify: $\left(11m^{2}-2mn+8n^{2}\right)-(8m^{2}+4mn-2n^{2})$
5. Simplify: $\left(c+10\right)+(2c^{2}-6c+1) $

6. Simplify: $\left(2c-3\right)-(c^{2}-4c+5)$