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 4**

1. Simplify: $\left(11m^{2}-2mn+8n^{2}\right)(8m^{2}+4mn-2n^{2})$
2. Simplify: $2\left(c+10\right)-4c(2c^{2}-6c+1) $
3. Simplify: $\left(2c-3\right)(4c+5)$
4. Simplify: $2x^{2}(4x-2)$
5. Simplify: $(x+2)^{2}$
6. Simplify: $(x^{2}-2x+4)(6x-1)$