**You must SHOW ALL WORK to receive full credit.**

**Simplify:**

1. $\left(3x^{3}-7x+21\right)-(3x^{2}-x+9)$ 2. $(2x+8)(3x-5)$

3. $(x-3)(x-2)$ 4. $(5x-7)(2x^{2}+3x+7)$

**Factor out the GCF.**

5. $12xy^{2}+18x^{2}y^{3}$ 6. $6x^{3}-9x^{2}+3x$

**Solve and graph.**

7. $3x-(x+4)\leq 6x-10$