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

**Simplify:**

1. $\left(4x^{2}+3x+8\right)+(3x^{2}-10x+6)$ 2. $(5x-2)(5x+2)$

3. $(3x-1)(4x-3)$ 4. $(3x-2)(6x^{2}+x+7)$

**Factor out the GCF.**

5. $3x^{3}-12x^{2}+6x$ 6. $4x^{3}+14x^{2}+2x$

**Factor using x-box.**

7. $5x^{2}+17x+6$

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