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

**Simplify the Radical:**

1. $4\sqrt{90}$

**Factor completely:**

2. $8x^{2}-98$ 3. $4x^{2}-2x-6$

**Solve by Factoring:**

4. $25x^{2}-64=0$ 5. $x^{2}+6x=-5$