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

**Simplify the Radical:**

1. $\sqrt{75}$

**Factor completely:**

2. $3x^{2}+9x+6$ 3. $3x^{2}-4x-4$

**Solve by Factoring:**

4. $16x^{2}-81=0$ 5. $x^{2}-7x=-12$