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

**Simplify the Radical:**

1. $2\sqrt{180}$

**Solve by Factoring:**

2. $x^{2}+4x-32=0$ 3. $16x^{2}+2x=3$

**Use the Quadratic Formula** $x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$ **to solve for x. Round answers to the nearest hundredth if necessary.**

5. $a=1,b=4, and c=3$ 6. $a=2,b=-3,and c=-5$