Lesson 2.6 Check Your Understanding

**Learning Goal # 1**: Determine whether a quadratic equation has real or complex roots

[ ]  I can go above and beyond this goal and teach it to others

[ ]  I can achieve this goal on my own without any help

[ ]  I can achieve this goal with some help from my teacher or peers

[ ]  I can achieve this goal if I am helped step by step

Proof of Understanding:

1. Determine (but do not solve) the nature of the solutions of the equation $y=5x^{2}-5x+1$
2. Determine (but do not solve) the nature of the solutions of the equation $y=2x^{2}+4x+2$
3. Determine (but do not solve) the nature of the solutions of the equation $y=4x^{2}+4x+2$

**Learning Goal # 2:** Solve quadratic equations using the Quadratic Formula

* Solve quadratic equations with real solutions

[ ]  I can go above and beyond this goal and teach it to others

[ ]  I can achieve this goal on my own without any help

[ ]  I can achieve this goal with some help from my teacher or peers

[ ]  I can achieve this goal if I am helped step by step

Proof of Understanding:

1. Solve: $3x^{2}-20x=7$
* Solve quadratic equations with complex solutions

[ ]  I can go above and beyond this goal and teach it to others

[ ]  I can achieve this goal on my own without any help

[ ]  I can achieve this goal with some help from my teacher or peers

[ ]  I can achieve this goal if I am helped step by step

Proof of Understanding:

1. Solve: $-x^{2}=-3x+8$
* \*\*(More challenging) Solve quadratic equations which involve simplifying radicals

[ ]  I can go above and beyond this goal and teach it to others

[ ]  I can achieve this goal on my own without any help

[ ]  I can achieve this goal with some help from my teacher or peers

[ ]  I can achieve this goal if I am helped step by step

Proof of Understanding:

1. Solve: $5x^{2}-5x=1$