Lesson 2.7 Check Your Understanding

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

Proof of Understanding:

1. Determine (but do not solve) the nature of the solutions of the equation

**2 real roots**

1. Determine (but do not solve) the nature of the solutions of the equation

**1 real root**

1. Determine (but do not solve) the nature of the solutions of the equation

**2 complex roots**

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

* Solve quadratic equations with real solutions

Proof of Understanding:

1. Solve:

**x = 7,**

* Solve quadratic equations with complex solutions

Proof of Understanding:

1. Solve:

**x =**

* \*\*(More challenging) Solve quadratic equations which involve simplifying radicals

Proof of Understanding:

1. Solve:

**x =**