Lesson 2.8 Check Your Understanding

**Learning Goal # 1**: Determine the number of real solutions for a linear-quadratic system by graphing

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:

Graph the functions in each linear-quadratic system. Determine the number of real solutions for the system.

**Learning Goal # 2:** Solve a linear-quadratic system algebraically

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:

Solve each linear-quadratic system using the substitution method (find the number of real solutions only).

**Learning Goal # 3:** Solve a linear-quadratic system using technology

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:

Solve each equation by writing a linear-quadratic system and solving using the intersection feature of a graphing calculator. Round to the nearest hundredth.

**Apply the concepts: Solve linear-quadratic systems given a real-world context**

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. Nate tosses a ball up a hill for his dog to chase. The path of the ball is modeled by the function y = , where x is the ball’s horizontal distance from Nate in feet and y is the ball’s height in feet. The hill is modeled by the line y = . How far does the ball travel horizontally before it hits the ground?

