Pre-Calc/Trig Quiz 3

Level 2

Simplify and state the Domain.

Level 3

Simplify and state the Domain.

Level 4

6. You and your friend want to make a crazy cool video. You throw a ball off the top of a 30 foot building. The distance the ball is from the ground is represented by the function , where t is time in seconds. Your friend is on a floor, in the middle of the building, and jumps out the window hoping to catch the ball. The path of your friend is represented by , where t is again in seconds. Based on what you know, is it even possible that your friend catches the ball before they hit the ground? *Justify your answer with proof.*