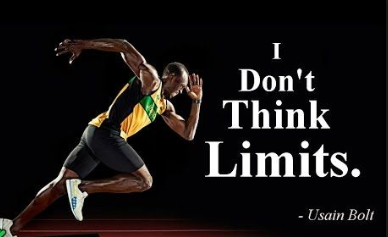
** Name: Period: Job 35: Solving Quadratics Using Square Roots**

**Part 1: Lesson 9-2 & 9-4 Textbook**

Lesson 9-3 Page 367: 6, 8, 10, 29

Lesson 9-4 Page 379: 6, 9, 10, 14, 15

**Part 2: Algebra Regents Questions –**

1. Ramier determines the zeros of the function to be and . What could be Ramier’s function?

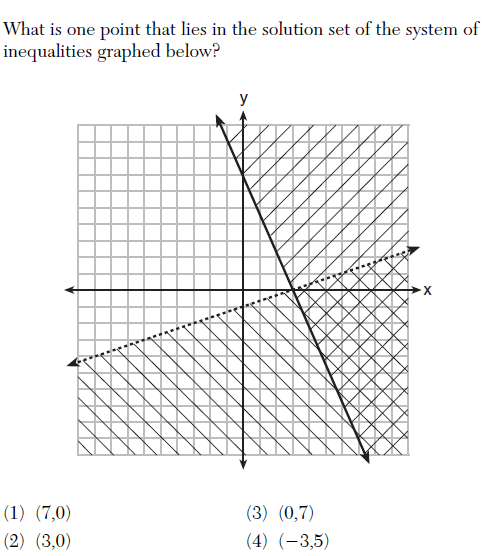
(1) (3)

(2) (4)

2. The function represents the height, , in feet of an object from the ground at seconds after it is dropped. A realistic domain for this function is

(1) (3)

(2) (4) all real numbers

1. A company produces units of a product per month, where represents the total cost and represents the total revenue for the month. The functions are modeled by and . The profit is the difference between revenue and cost where . What is the total profit, . What is the total profit, , for the month?
2. The third term in an arithmetic sequence is 10 and the fifth term is 26. If the first term is , which is an equation for the th term of this sequence?
3. (3)
4. (4)
5. Which expression is equivalent to ?
6. (3)
7. (4)
8. 



1. Which situation could be modeled by using a linear function?
2. A bank account balance that grows at a rate of 5% per year, compounded annually
3. A population of bacteria hat doubles every 4.5 hours
4. The cost of a cell phone service that charges a base amount plus 20 cents per minute
5. The concentration of medicine in a person’s body that decays by a factor of one-third every hour