Part II

It is possible to earn partial credit. Please make an effort to show the way you arrive at your solution.

25. Condoleezza holds a watermelon just over the edge of roof of the 300-foot Federal Building, and tosses it up with a velocity of 20 feet per second. The height of the watermelon above the ground t seconds later is given by formula $h = -16t^2 + 20t + 300$.

   a. In how many seconds will it pass her (she's standing at a height of 300 feet) on the way down?

   number of seconds = _____ (2)

   b. When will the watermelon hit the ground?

   it hits the ground at _____ (2)

   c. How high did the watermelon get above the ground?

   the maximum height = _____ (2)

26. Professor Flunkem gave his algebra class a two-hour final exam of 34 questions. He awarded 5 points for every correct answer, and deducted 2 points for every incorrect answer. Questions not answered were counted as incorrect, and there was no partial credit.

   His student Aurora Borealis scored 86. How many questions did she answer correctly? How many did she answer incorrectly or left blank?

   Number of correct answers = _____

   Number of incorrect or blank answers = _____

   (5)